

									L0770: 1, L0769: 1, L0764: 1, L0766: 1, L0776: 1, L0518: 1, L0783: 1, L0438: 1, H0651: 1, L0748: 1, L0740: 1, L0754: 1, L0745: 1, L0756: 1, L0779: 1, L0758: 1, L0591: 1, L0592: 1, H0543: 1 and H0293: 1.			
136	HJMBM38	545752	146	387 - 725	662				H0424: 3, H0545: 2, L0809: 2, S0212: 1, H0255: 1, S0278: 1, H0587: 1, H0559: 1, H0188: 1, H0087: 1, H0551: 1, H0529: 1, L0769: 1, L0761: 1, L0646: 1, L0764: 1, L0363: 1, L0794: 1, L0659: 1, L0783: 1, L0787: 1, L0665: 1, H0660: 1, S0328: 1, H0521: 1, L0777: 1, S0192: 1 and H0422: 1.			
137	HJPAD75	651337	147	60 - 335	663	Pro-42 to Cys-50, Leu-61 to Ala-66.			H0556: 6, L0769: 4, L0771: 4, H0265: 3, L0764: 3, H0083: 2, S0142: 2, L0794: 2, L0803: 2, L0789: 2, L0792: 2, L0438: 2,			

	HJPCP42	844091	414	134 - 805	930	Asp-77 to Leu-82.			
	HJPCP42	852573	415	468 - 494	931				
	HJPCP42	824612	416	1 - 249	932	Thr-21 to Thr-29, Gln-51 to Arg-57.			
139	HKABI84	565078	149	274 - 417	665	Phe-25 to Ser-30.	L0794: 9, L0777: 6, L0809: 4, L0779: 4, L0731: 4, L0766: 3, L0666: 3, L0663: 3, L3825: 3, H0547: 3, S0444: 2, L3459: 2, L3480: 2, L3817: 2, L0483: 2, L0770: 2, L0521: 2, L0768: 2, L0803: 2, L0775: 2, L0805: 2, L0661: 2, L0665: 2, H0144: 2, L3827: 2, L3828: 2, H0658: 2, H0670: 2, S0406: 2, L0439: 2, L0754: 2, L0749: 2, L0756: 2, H0543: 2, H0556: 1, H0657: 1, H0662: 1, S0360: 1, L3262: 1, L2799: 1, H0411: 1, S0278: 1, H0443: 1, H0550: 1, L3816: 1, T0039: 1, L3499: 1, L2647: 1, H0013: 1, H0427: 1, H0575: 1, S0474: 1,		

									H0052: 1, H0591: 1, H0038: 1, H0040: 1, H0616: 1, H0264: 1, H0494: 1, S0440: 1, H0649: 1, L0598: 1, H0529: 1, L0369: 1, L0640: 1, L3904: 1, L0662: 1, L0804: 1, L0375: 1, L0378: 1, L0806: 1, L0653: 1, L0776: 1, L0807: 1, L0788: 1, L0664: 1, L2259: 1, L2654: 1, L3812: 1, S0126: 1, H0689: 1, H0435: 1, H0539: 1, H0696: 1, S0176: 1, H0555: 1, H0785: 1, L0747: 1, L0755: 1, L0757: 1, L0758: 1, L0608: 1, L0362: 1, S0026: 1, S0424: 1 and L3808: 1.				
140	HKABZ65	862030	150	77 - 808	666	Ser-25 to Ala-31, Gln-146 to Ser-151, His-231 to Asn-236.	H0494: 1						
	HKABZ65	665424	417	69 - 800	933	Ser-25 to Ala-31, Gln-146 to Ser-151, His-231 to Asn-236.							
141	HKACB56	554616	151	27 - 269	667	Tyr-39 to Lys-58.	H0494: 4, L0045: 1 and L0806: 1.						

142	HKACD58	1352202	152	38 - 940	668	<p>Thr-42 to Pro-53, Val-78 to Glu-86, Glu-103 to Met-112, Ala-124 to Gly-131, Trp-158 to Glu-168, Gln-189 to Phe-210, Ala-221 to Gly-226, Arg-274 to Asp-284, Ala-294 to Gly-299.</p>	<p>S0360: 12, S0436: 3, S0194: 3, S0114: 2, H0483: 2, S0408: 2, L3504: 2, H0575: 2, H0581: 2, S0344: 2, L2262: 2, H0519: 2, L0754: 2, H0139: 1, L2884: 1, H0657: 1, H0656: 1, S0420: 1, S0356: 1, S0410: 1, L2333: 1, H0151: 1, S0046: 1, L3127: 1, H0549: 1, H0613: 1, H0427: 1, H0546: 1, H0081: 1, H0355: 1, S0312: 1, H0032: 1, H0383: 1, H0551: 1, H0264: 1, T0042: 1, H0494: 1, H0386: 1, H0509: 1, H0649: 1, S0210: 1, L0646: 1, L0804: 1, L0805: 1, L0809: 1, L5622: 1, L2651: 1, L2265: 1, L2702: 1, H0682: 1, H0435: 1, H0670: 1, H0672: 1, H0521: 1, H0696: 1, H0134: 1, S0206: 1, L0741: 1, L0743: 1, L0744: 1,</p>		
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	HKACD58	552465	418	35 - 499	934	Thr-42 to Pro-53, Val-78 to Glu-86, Glu-103 to Met-112, Ala-124 to Gly-131.					
143	HKACH44	545015	153	375 - 509	669	Cys-25 to Trp-30.		L0769: 3, L0809: 2, L0750: 2, H0663: 1, S0356: 1, S0360: 1, S6026: 1, S0278: 1, H0559: 1, H0486: 1, H0618: 1, H0024: 1, H0606: 1, H0494: 1, H0560: 1, H0538: 1, L0646: 1, L0800: 1, L0764: 1, L0662: 1, L0794: 1, L0766: 1, L0803: 1, L0656: 1, L0664: 1, H0547: 1, H0672: 1, S0328: 1, L0757: 1 and H0543: 1.			
144	HKAUV06	1352263	154	501 - 1814	670	Thr-6 to Trp-13, Thr-75 to Gln-80, Thr-112 to Tyr-117, Leu-133 to Pro-138, Ala-146 to Phe-153, Gln-319 to Ser-325,		L0438: 2, L0758: 2, S0442: 1, S0354: 1, S0444: 1, H0741: 1, L0021: 1, T0082: 1, H0046: 1, H0494: 1, S0440: 1, L3815: 1,			

							Val-354 to His-372, Pro-391 to Gly-396, Val-405 to Thr-412, Ile-425 to Asp-437.	L0800: 1, L0662: 1, L5574: 1, L0803: 1, L0776: 1, L0659: 1, L2655: 1, L2653: 1, S0374: 1, H0547: 1, H0672: 1, S0330: 1, H0521: 1, H0696: 1, L0439: 1, L0752: 1, L0594: 1 and H0543: 1.			
	HKAEV06	638238	419	197 - 370	935		Thr-6 to Trp-13.				
145	HKAFT66	946512	155	508 - 831	671		Ser-51 to Thr-57.	S0474: 5, S0422: 3, H0580: 2, S0444: 1, H0494: 1 and H0543: 1.			
	HKAFT66	889258	420	508 - 831	936		Ser-51 to Thr-57.				
	HKAFT66	904790	421	234 - 347	937		Gln-23 to Asp-28.				
146	HKB1E57	876571	156	178 - 879	672		Ser-7 to Pro-14, Arg-47 to Arg-52, His-117 to Val-123, Glu-142 to Thr-149, Leu-162 to Ala-167, Gly-172 to Asn-177, Thr-226 to Ala-232.	L0747: 4, L0766: 3, L0776: 3, L0665: 3, H0328: 2, L0763: 2, L0769: 2, L0772: 2, L0764: 2, L0666: 2, L0745: 2, L0750: 2, L0777: 2, L0759: 2, L0608: 2, H0556: 1, S0116: 1, H0384: 1, S0360: 1, S0408: 1, H0637: 1, H0722: 1, H0735: 1, H0619: 1, H0492: 1, H0156: 1, H0421: 1, H0620: 1, S0051: 1, H0083: 1,			

									H0510: 1, H0266: 1, H0031: 1, H0634: 1, H0560: 1, S0440: 1, H0132: 1, H0695: 1, L0800: 1, L0521: 1, L0662: 1, L0774: 1, L0806: 1, L0807: 1, H0144: 1, H0690: 1, H0658: 1, H0521: 1, H0522: 1, L0439: 1, L0746: 1, L0752: 1, L0480: 1, L0589: 1, L0592: 1, H0543: 1 and H0422: 1.				
	HKB1E57	654871	422	30 - 170	938	Met-1 to Tyr-6, Thr-38 to Ala-44.							
147	HKFBC53	1352286	157	64 - 1473	673	Arg-52 to Ala-58, Thr-121 to Lys-126, Gly-156 to Gln-164, Gly-201 to Glu-215, Thr-432 to Gly-450, Glu-461 to Gly-466.				L0794: 11, H0521: 11, S0002: 8, L0805: 8, L0803: 7, S0278: 6, S0144: 6, L0774: 4, L0777: 4, S0380: 3, H0265: 2, H0556: 2, H0255: 2, H0638: 2, L0761: 2, L0776: 2, L0809: 2, S0406: 2, S0298: 1, S0420: 1, S0356: 1, H0431: 1, H0618: 1, H0546: 1, H0100: 1, H0429: 1, H0494: 1, H0509: 1,			

								S0142: 1, S0426: 1, L0640: 1, L0763: 1, L0770: 1, L3904: 1, L0800: 1, L0804: 1, L0806: 1, L0807: 1, L4669: 1, L5622: 1, L5623: 1, L0791: 1, L0792: 1, L0666: 1, L2261: 1, S0374: 1, H0690: 1, H0522: 1, S0390: 1, L0740: 1, L0751: 1, L0756: 1, L0779: 1 and L0731: 1.			
	HKFBC53	701893	423	41 - 1369	939	Ala-28 to Ala-33, Arg-38 to Leu-48, Thr-120 to Lys-125, Gly-155 to Gln-163, Gly-200 to Glu-214.					
	HKFBC53	513190	424	3 - 929	940	Ala-1 to Gly-6, Ala-10 to Tyr-18.					
	HKFBC53	383426	425	3 - 731	941	Ala-1 to Gly-6, Ala-10 to Tyr-18.					
148	HKGDL36	877489	158	53 - 835	674	Pro-36 to Gly-42, Gly-54 to Arg-65, Ala-85 to Ala-91, Ala-95 to Gln-102, Ala-115 to Pro-121, Pro-166 to Asp-191, Lys-243 to Ala-249.	H0424: 28, L0803: 25, L0805: 9, L0636: 7, L0774: 5, L0770: 4, H0661: 2, S0222: 2, L0157: 2, L0638: 2, L3904: 2, L0776: 2, L0659: 2, L0809: 2, L0789: 2, H0539: 2,				

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	HKGDL36	704088	426	55 - 501	942	Pro-36 to Gly-42, Pro-64 to Ala-76, Gly-83 to Ala-90, Ser-100 to Cys-108, Thr-126 to Ser-135.							
149	HKISB57	625956	159	130 - 417	675	Ala-23 to Arg-36, His-38 to Ala-46, Pro-50 to Gly-56, Arg-85 to Val-94.				L0747: 5, L0731: 5, H0031: 4, L0599: 4, S0045: 3, H0411: 3, H0494: 3, L0783: 3, L0743: 3, L0758: 3, L0759: 3, L0604: 3, H0295: 2, S0356: 2, S0360: 2, S0046: 2, H0413: 2, L0774: 2, H0651: 2, S0027: 2,			

									H0059: 1, T0042: 1, L0475: 1, L0803: 1, L0775: 1, H0593: 1, L3215: 1, S0013: 1, L0758: 1 and H0707: 1.			
151	HKMLP68	1037919	161	130 - 372	677			Gln-27 to Trp-33, Gly-53 to Trp-61.	H0549: 1 and H0431: 1.			
	HKMLP68	880047	427	153 - 395	943			Gln-27 to Trp-33, Gly-53 to Trp-61.				
	HKMLP68	583524	428	471 - 611	944			Lys-17 to Ser-47.				
152	HKMMD13	604751	162	342 - 491	678				H0431: 1			
153	HKMMW74	581399	163	202 - 327	679				H0431: 1			
154	HKMND01	527402	164	23 - 175	680				H0431: 1			
155	HLDBE54	836041	165	155 - 1108	681			Glu-39 to Gly-45, Thr-51 to Gly-60, Ala-63 to Gln-77, Gly-122 to Asn-129, Leu-175 to Ser-181, Thr-193 to Pro-199, Thr-236 to Gly-241, Asn-256 to Lys-279, Glu-311 to Leu-317.	H0616: 1 and H0509: 1.			
	HLDBE54	600362	429	130 - 399	945			Glu-39 to Gly-45, Thr-51 to Gly-60, Ala-63 to Gln-82.				
	HLDBE54	800678	430	133 - 1590	946			Thr-36 to Arg-41, Pro-55 to Pro-60, Pro-67 to Leu-72, Asn-111 to Ser-118, Cys-138 to Asp-144,				

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									H0521: 1, H0696: 1, S0044: 1, H0627: 1, S0027: 1, L0749: 1, L0752: 1, H0595: 1, S0436: 1, L0591: 1, L0595: 1, L0361: 1, S0011: 1, S0194: 1, S0276: 1 and H0423: 1.			
161	HLDRM43	846330	171	24 - 479	687	Trp-35 to Trp-45, Pro-52 to Asp-57, Thr-73 to Arg-82, Pro-105 to Leu-112, Pro-115 to Arg-127, Pro-140 to Gln-151.			S0410: 24, S0408: 6, H0792: 5, S0358: 4, S0444: 4, S0406: 4, L0748: 4, H0661: 3, H0393: 3, H0574: 3, S0438: 3, S0440: 3, H0509: 3, L0764: 3, S0442: 2, S0360: 2, H0742: 2, H0510: 2, S0374: 2, H0730: 1, H0722: 1, H0776: 1, H0331: 1, H0204: 1, H0150: 1, H0615: 1, H0059: 1, L0772: 1, L0803: 1, L0774: 1 and L0791: 1.			
	HLDRM43	638939	431	164 - 619	947	Trp-35 to Trp-45, Pro-52 to Asp-57, Thr-73 to Arg-82, Pro-105 to Leu-112, Pro-115 to Arg-127, Pro-140 to Gln-151.						

162	HLD RP33	647430	172	215 - 340	688	Ser-31 to Gln-41.	S0222: 1 and H0510: 1.		
163	HLHAL68	684216	173	30 - 164	689	Leu-32 to His-38.	H0024: 1		
164	HLHFP03	460467	174	224 - 574	690	Tyr-28 to Phe-34, Thr-54 to Val-60, Tyr-73 to Thr-82.	L0742: 4 and H0024: 1.		
165	HLIBD68	778073	175	186 - 338	691	Met-37 to Ser-43.	L0157: 7, L0794: 6, H0040: 4, L0439: 4, L0758: 4, H0556: 3, L0803: 3, L0005: 2, L0471: 2, H0059: 2, T0004: 2, L0769: 2, L0761: 2, L0805: 2, T0002: 1, H0685: 1, S0134: 1, S0110: 1, H0176: 1, S0356: 1, S0222: 1, H0441: 1, H0370: 1, H0486: 1, H0014: 1, H0083: 1, H0355: 1, H0286: 1, H0606: 1, H0163: 1, H0090: 1, H0561: 1, L0521: 1, L0766: 1, L0774: 1, L0809: 1, L0788: 1, L0665: 1, H0539: 1, H0696: 1, L0748: 1, L0749: 1, L0777: 1, H0543: 1 and H0423: 1.		
166	HLICQ90	791828	176	249 - 869	692	Pro-55 to Gly-66, Phe-92 to Leu-103.	H0046: 10, L0748: 6, L0758: 3, L0776: 2,		

									L0742: 2, L0744: 2, L0750: 2, S0444: 1, S0360: 1, H0619: 1, L0717: 1, H0331: 1, H0013: 1, H0235: 1, H0355: 1, H0687: 1, H0674: 1, H0038: 1, H0623: 1, L0805: 1, L0809: 1, L0789: 1, L0666: 1, L0663: 1, S0428: 1, H0520: 1, H0539: 1, S0404: 1, L0740: 1, L0749: 1, L0756: 1, S0031: 1, S0026: 1 and H0008: 1.			
167	HLMBO76	626831	177	43 - 366	693				L0439: 6, S0410: 3, L0794: 2, H0255: 1, H0163: 1, H0745: 1, L0796: 1, L0662: 1, L0766: 1, L0776: 1, L0666: 1, L0438: 1, L0352: 1, H0659: 1, H0521: 1 and L0755: 1.			
168	HLTEJ06	543017	178	197 - 364	694	Gln-25 to Phe-43.			L0769: 3, L0777: 3, S0422: 2, L0803: 2, L0775: 2, H0547: 2, S0408: 1, S0278: 1, H0090: 1, L0766: 1, L0774: 1, L0515: 1, H0519: 1, L0748: 1,			

									L0749: 1, L0755: 1, L0759: 1 and L0592: 1.			
169	HLTHR66	699812	179	5 - 232	695				H0036: 2, S0132: 1, S0010: 1, S0250: 1, H0591: 1 and H0130: 1.			
170	HLTIP94	1087335	180	226 - 516	696			Gly-4 to Glu-9, Asp-22 to Cys-28, Glu-39 to Leu-44, Phe-88 to Phe-94.	H0170: 1, S6026: 1 and 17 H0591: 1.			
	HLTIP94	1035443	432	226 - 423	948			Gly-4 to Glu-9.				
	HLTIP94	1047690	433	3 - 899	949			Gly-1 to Glu-8, Gly-37 to Gly-61, Gln-71 to Phe-81, Asp-95 to Gly-103, Leu-126 to Ile-131, Val-166 to Glu-171.				
171	HLWAA17	629552	181	436 - 996	697			Lys-17 to Glu-27, Gln-40 to Gly-47.	S0410: 24, L0748: 18, S0436: 12, H0547: 8, L0731: 8, H0556: 7, H0039: 6, L0666: 6, H0046: 5, H0059: 5, L0775: 5, L0439: 5, L0755: 5, H0622: 4, L0662: 4, L0740: 4, L0751: 4, L0779: 4, H0575: 3, H0553: 3, H0529: 3, L0769: 3, L0659: 3, L5623: 3, L0588: 3, L0593: 3, S0011: 3, H0255: 2,			

					H0599: 1, T0082: 1, H0318: 1, H0251: 1, T0110: 1, H0545: 1, H0150: 1, H0041: 1, H0620: 1, H0024: 1, H0057: 1, H0014: 1, S0051: 1, H0083: 1, S0024: 1, H0355: 1, H0266: 1, H0271: 1, H0188: 1, S0250: 1, H0328: 1, H0615: 1, L0483: 1, H0030: 1, H0031: 1, H0111: 1, H0032: 1, H0383: 1, H0674: 1, H0211: 1, L0456: 1, H0068: 1, H0135: 1, H0040: 1, H0634: 1, H0551: 1, H0412: 1, S0450: 1, H0647: 1, H0646: 1, S0144: 1, S0142: 1, S0344: 1, S0210: 1, L0761: 1, L0372: 1, L0764: 1, L0767: 1, L0768: 1, L0649: 1, L5574: 1, L0375: 1, L0651: 1, L0784: 1, L0654: 1, L0807: 1, L0515: 1, L0658: 1, L0383: 1, L0663: 1,				
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					S0126: 3, H0659: 3, S0028: 3, L0439: 3, L0740: 3, L0749: 3, L0777: 3, L0755: 3, S0376: 2, H0250: 2, H0046: 2, H0673: 2, H0038: 2, H0412: 2, H0494: 2, H0529: 2, L0770: 2, L0768: 2, L0766: 2, L0805: 2, L0745: 2, L0750: 2, L0779: 2, L0757: 2, T0002: 1, L3642: 1, L3643: 1, H0583: 1, S0116: 1, H0341: 1, S0358: 1, S0444: 1, S0360: 1, L3645: 1, L3649: 1, H0580: 1, S0045: 1, S0476: 1, H0261: 1, H0642: 1, H0574: 1, H0485: 1, H0486: 1, T0040: 1, L3655: 1, H0599: 1, H0581: 1, H0052: 1, H0251: 1, T0110: 1, H0150: 1, H0083: 1, H0266: 1, H0687: 1, S0214: 1, H0553: 1, H0372: 1, H0616: 1, H0100: 1, S0112: 1,
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									S0438: 1, S0150: 1, H0641: 1, S0142: 1, L0764: 1, L0767: 1, L0775: 1, L0806: 1, L0653: 1, L0776: 1, L0791: 1, L0666: 1, L0665: 1, S0428: 1, L0438: 1, H0689: 1, H0435: 1, H0660: 1, H0648: 1, S0328: 1, S0330: 1, H0539: 1, L0602: 1, S0152: 1, H0522: 1, S0406: 1, S0027: 1, L0753: 1, L0731: 1, L0758: 1, S0434: 1, S0276: 1, S0196: 1 and H0423: 1.			
174	HLW/AE11	783071	184	28 - 861	700	Asp-55 to Asp-67, Ser-76 to His-81, Lys-96 to Gly-103, Met-111 to Gly-133, Gln-222 to Ile-228, Lys-250 to Tyr-258.			H0056: 2, H0056: 2, H0050: 1, H0050: 1, H0266: 1, H0266: 1, H0553: 1, H0553: 1, H0521: 1, H0521: 1, L0748: 1 and L0748: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040, 218040, 602049, 603590	

175	HLWAO22	587270	185	212 - 1276	701	Cys-126 to Thr-138, Glu-165 to Gly-172, Thr-189 to Leu-200, Gly-222 to Gly-229, Pro-346 to Lys-354.	L0439: 8, L0751: 6, L0747: 6, L0665: 5, L0438: 4, L0779: 4, H0012: 3, L0748: 3, H0620: 2, H0594: 2, H0424: 2, H0553: 2, S0144: 2, L0769: 2, L0771: 2, L0809: 2, H0144: 2, H0593: 2, S0027: 2, L0777: 2, L0758: 2, L0587: 2, H0422: 2, H0171: 1, H0713: 1, H0664: 1, H0619: 1, S0222: 1, H0492: 1, L3653: 1, H0618: 1, H0253: 1, H0581: 1, H0052: 1, H0150: 1, H0024: 1, S0388: 1, S0364: 1, H0135: 1, H0040: 1, L0640: 1, L3905: 1, L0761: 1, L0372: 1, L0773: 1, L0648: 1, L0662: 1, L0766: 1, L0774: 1, L0629: 1, L0666: 1, L0664: 1, H0658: 1, H0521: 1, S3014: 1, H0543: 1 and H0423: 1.		
176	HLWBH18	1045194	186	107 - 289	702	Arg-18 to Trp-33,	H0553: 1		

178	HLYAC95	778075	188	92 - 232	704		H0445: 1		
179	HMADK33	561941	189	161 - 619	705	Gly-43 to Gly-55.	L0438: 9, L0439: 9, L0776: 8, H0144: 7, L0741: 7, H0271: 6, S0222: 5, L0769: 5, H0052: 4, L0770: 4, L0766: 4, L0659: 4, L0666: 4, L0759: 4, H0295: 3, S0360: 3, L0370: 3, L0510: 3, H0556: 2, S0007: 2, H0261: 2, L0021: 2, H0046: 2, H0009: 2, S0051: 2, S0366: 2, H0059: 2, L0763: 2, L0784: 2, L0633: 2, L0783: 2, L0789: 2, L0790: 2, L0792: 2, L0743: 2, L0747: 2, L0749: 2, L0756: 2, L0757: 2, L0758: 2, H0445: 2, L0588: 2, L0594: 2, L0366: 2, H0265: 1, S6024: 1, H0638: 1, S0376: 1, S0045: 1, H0550: 1, H0370: 1, H0587: 1, N0009: 1, H0013: 1, S0280: 1, H0599: 1, S0010: 1, S0049: 1,		

									H0662: 1, S0418: 1, H0619: 1, H0549: 1, H0590: 1, H0052: 1, H0083: 1, H0266: 1, H0286: 1, H0644: 1, S0036: 1, H0433: 1, H0412: 1, H0413: 1, T0042: 1, S0144: 1, S0142: 1, S0344: 1, L0770: 1, L0761: 1, L0774: 1, H0518: 1, L0777: 1, L0758: 1 and H0665: 1.			
181	HMAMI15	1352406	191	4 - 1023	707		Gly-33 to Lys-41, Pro-52 to Lys-60, Asn-81 to Ala-86, Lys-156 to Met-164, Gln-283 to Lys-292, Glu-303 to Gly-308.		H0624: 2, S0354: 2, S0442: 1, S0444: 1, S0278: 1, S0222: 1, H0586: 1, L0021: 1, H0036: 1, H0031: 1, L0769: 1, L0804: 1, L0774: 1, H0658: 1, H0521: 1, S0406: 1, L0748: 1 and S0462: 1.			
	HMAMI15	1049263	436	3 - 923	952		Gly-33 to Lys-41, Pro-52 to Lys-60, Asn-81 to Ala-86.					
182	HMCIFY13	635301	192	175 - 369	708				L0800: 2, H0550: 1, H0497: 1, S0344: 1, L0769: 1, L0789: 1 and L0749: 1.			
183	HMDAB56	560676	193	273 - 407	709				L0809: 2, H0346: 1,			

184	HMDAM24	514394	194	109 - 171	710		H0271: 1, L0774: 1 and L0532: 1.		
							L0748: 9, L0754: 6, L0605: 6, H0031: 4, S0126: 4, H0740: 3, S0046: 3, H0052: 2, S0422: 2, L0803: 2, L0666: 2, L0663: 2, S0330: 2, L0750: 2, H0686: 1, H0346: 1, S0420: 1, H0733: 1, H0619: 1, H0431: 1, H0156: 1, H0575: 1, H0590: 1, H0581: 1, H0046: 1, H0123: 1, H0050: 1, H0373: 1, H0083: 1, H0266: 1, H0553: 1, H0628: 1, H0598: 1, S0036: 1, H0100: 1, H0494: 1, H0561: 1, S0440: 1, L0662: 1, L0794: 1, L0381: 1, L0650: 1, L0776: 1, L0540: 1, L0791: 1, H0144: 1, S0328: 1, S0152: 1, H0696: 1, S0406: 1, S3014: 1, L0752: 1, S0260: 1, S0436: 1, L0604: 1, L0593: 1,		

185	HMEAI48	1352290	195	36 - 299	711	Arg-48 to Lys-55, Gly-61 to Glu-70.	S0242: 1 and H0543: 1. H0266: 1		
	HMEAI48	709671	437	95 - 217	953	Gln-34 to Lys-40.			
186	HMEED18	560775	196	34 - 699	712	Gln-85 to Lys-91, Pro-106 to Ser-117, Pro-124 to Ala-130, Trp-154 to Trp-160.	L0439: 20, L0157: 8, L0794: 8, L0805: 6, H0739: 5, L0731: 5, L0804: 4, S0222: 3, L0766: 3, L0438: 3, S0356: 2, H0741: 2, H0050: 2, S0144: 2, L0803: 2, L0655: 2, L0663: 2, L2654: 2, H0521: 2, H0522: 2, L0749: 2, L0779: 2, L0777: 2, L0755: 2, L0759: 2, H0265: 1, S6024: 1, S0116: 1, S0444: 1, H0733: 1, S6026: 1, H0298: 1, H0592: 1, L0622: 1, H0486: 1, H0013: 1, H0250: 1, H0635: 1, H0156: 1, S0474: 1, H0581: 1, H0046: 1, L0471: 1, H0012: 1, H0014: 1, H0373: 1, H0073: 1, H0266: 1, S0336: 1, H0039: 1, S0036: 1, H0040: 1,		

									H0634: 1, H0551: 1, H0561: 1, S0438: 1, S0440: 1, H0529: 1, L0769: 1, L0764: 1, L0662: 1, L0774: 1, L0775: 1, L0809: 1, L0790: 1, L0792: 1, L0666: 1, L0664: 1, L0665: 1, L0709: 1, L2653: 1, H0144: 1, H0659: 1, H0658: 1, H0670: 1, S0378: 1, H0696: 1, H0555: 1, H0576: 1, S0028: 1, L0745: 1, L0747: 1, L0780: 1, S0434: 1, S0436: 1 and H0668: 1.			
187	HMEFT54	520307	197	332 - 451	713				L0757: 3, L0662: 2, H0686: 1, S0444: 1, H0266: 1, L0055: 1, L0763: 1, L0800: 1, L0764: 1, L0768: 1, L0805: 1, L0653: 1, L0666: 1, H0690: 1, H0672: 1, L0751: 1, L0777: 1 and L0758: 1.			
188	HMEGF92	520304	198	92 - 280	714	Ser-34 to Ser-39.			H0266: 1, L0438: 1 and L0439: 1.			
189	HMSDL37	973996	199	531 - 725	715	Ser-31 to Lys-45, Pro-47 to Pro-53.			L0517: 2, S0050: 1, H0014: 1, H0510: 1.	3,3p		

						Ser-58 to Arg-63.	H0040: 1, H0264: 1, S0002: 1, S0374: 1 and L0758: 1.			
	HMSDL37	895429	438	528 - 722	954	Ser-31 to Lys-45, Pro-47 to Pro-53, Ser-58 to Arg-63.				
	HMSDL37	904241	439	565 - 645	955					
	HMSDL37	750927	440	2 - 151	956					
190	HMSFI26	560229	200	120 - 308	716		S0002: 1			
191	HMSGT42	383470	201	40 - 315	717	Pro-65 to Cys-71.	L0754: 14, L0752: 14, S0360: 11, L0742: 10, L0758: 9, H0341: 8, H0551: 8, L0750: 8, H0046: 7, S0003: 7, L0749: 7, H0170: 6, S0354: 6, S0408: 6, L0483: 6, H0038: 6, L0771: 6, H0144: 6, S0152: 6, L0439: 6, L0747: 6, H0543: 6, H0486: 5, S0440: 5, L0775: 5, S0374: 5, S0126: 5, S0380: 5, L0745: 5, H0013: 4, T0067: 4, S0002: 4, L0769: 4, L0662: 4, L0774: 4, L0806: 4, L0664: 4, L0665: 4, L0740: 4, S0026: 4, S0192: 4, H0624: 3,			

						H0657: 3, H0580: 3, H0581: 3, H0050: 3, H0039: 3, H0622: 3, H0031: 3, S0142: 3, L0520: 3, L0646: 3, L0766: 3, L0518: 3, L0438: 3, H0547: 3, H0659: 3, L0731: 3, L0596: 3, S0116: 2, H0662: 2, H0638: 2, S0358: 2, S0376: 2, S0046: 2, H0393: 2, H0431: 2, S0280: 2, H0156: 2, H0575: 2, H0327: 2, L0471: 2, H0620: 2, H0051: 2, H0083: 2, H0553: 2, H0644: 2, H0032: 2, H0090: 2, H0616: 2, T0042: 2, S0438: 2, H0529: 2, L0761: 2, L0764: 2, L0649: 2, L0653: 2, L0776: 2, L0659: 2, L0666: 2, L0663: 2, H0520: 2, H0519: 2, H0658: 2, H0670: 2, H0660: 2, H0539: 2, H0521: 2, H0522: 2, H0696: 2, S3012: 2, L0759: 2,					
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					S0031: 2, H0595: 2, S0434: 2, L0589: 2, L0605: 2, L0608: 2, L0604: 2, L0593: 2, L0601: 2, H0667: 2, S0194: 2, H0171: 1, T0002: 1, H0220: 1, H0159: 1, S0342: 1, S0218: 1, H0650: 1, H0656: 1, H0669: 1, H0664: 1, L0481: 1, S0418: 1, S0356: 1, S0442: 1, H0637: 1, S0045: 1, H0619: 1, H0437: 1, H0549: 1, S0222: 1, H0600: 1, H0586: 1, H0587: 1, H0574: 1, T0114: 1, H0427: 1, L0021: 1, H0599: 1, H0042: 1, H0590: 1, H0004: 1, S0010: 1, S0346: 1, H0251: 1, H0545: 1, H0172: 1, H0012: 1, H0014: 1, H0373: 1, S0388: 1, H0275: 1, S0250: 1, S0214: 1, H0328: 1, H0615: 1, H0628: 1, H0598: 1, H0591: 1, H0634: 1,				
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193	HMSHS36	1127691	203	134 - 445	719	Thr-28 to Arg-49, Ser-57 to Arg-64, Pro-72 to His-78.	S0002: 1		
	HMSHS36	1028961	441	162 - 473	957	Thr-28 to Arg-49, Ser-57 to Arg-64.			
194	HMSKC04	799540	204	133 - 354	720	Thr-27 to Arg-33, Gly-37 to Ser-42, Pro-52 to Arg-72.	H0264: 2, S0002: 2, S0114: 1 and H0416: 1.		
195	HMUAP70	872208	205	183 - 845	721	Cys-15 to Gly-36.	H0556: 4, H0013: 3, H0052: 3, H0090: 3, H0591: 3, S0010: 2, H0046: 2, S0214: 2, H0032: 2, H0056: 2, H0529: 2, S0432: 2, H0171: 1, S0134: 1, S0212: 1, H0431: 1, H0587: 1, H0559: 1, T0039: 1, T0112: 1, H0575: 1, H0421: 1, S0049: 1, H0050: 1, H0012: 1, H0510: 1, S6028: 1, H0181: 1, H0617: 1, S0036: 1, H0413: 1, H0623: 1, H0059: 1, S0386: 1, H0494: 1, S0126: 1, H0539: 1, H0543: 1 and H0423: 1.		
	HMUAP70	723302	442	413 - 724	958	Lys-83 to Thr-90.			
	HMUAP70	778820	443	251 - 844	959				

	HMUAP70	674913	444	62 - 379	960							
	HMUAP70	646810	445	60 - 263	961							
	HMUAP70	381964	446	60 - 128	962							
196	HMVBS81	639203	206	34 - 453	722			H0544: 4, L0775: 3, L0748: 3, H0265: 2, H0046: 2, T0010: 2, H0424: 2, L0769: 2, L0771: 2, L0774: 2, L0659: 2, L0382: 2, H0696: 2, L0750: 2, L0755: 2, L0731: 2, L0757: 2, L0758: 2, L0608: 2, H0685: 1, S0040: 1, S0114: 1, S0218: 1, L0785: 1, H0341: 1, S0212: 1, H0484: 1, H0662: 1, S0360: 1, H0411: 1, H0592: 1, L0623: 1, H0156: 1, H0253: 1, H0263: 1, H0204: 1, H0150: 1, H0050: 1, H0012: 1, H0510: 1, H0606: 1, L0055: 1, S0364: 1, H0124: 1, H0163: 1, H0090: 1, H0087: 1, H0413: 1, H0494: 1, H0509: 1, S0210: 1, L0770: 1, L0764: 1, L0773: 1,				

								L0794: 1, L0766: 1, L0658: 1, L0666: 1, S0126: 1, S3012: 1, S3014: 1, L0745: 1, L0747: 1, L0777: 1, S0031: 1, S0434: 1, L0605: 1, L0366: 1 and H0543: 1.			
197	HMWDC28	460487	207	124 - 252	723			H0341: 2, L0803: 2, L0439: 2, L0747: 2, S0376: 1, S0360: 1, S0222: 1, H0674: 1, H0038: 1, L0655: 1, L0809: 1, L0666: 1, L0754: 1, L0756: 1, L0757: 1 and L0591: 1.			
198	HMWFT65	562063	208	72 - 437	724			H0341: 1			
199	HMWGY65	1308287	209	42 - 1514	725	Pro-18 to Gly-30, Arg-98 to Cys-103, Glu-106 to Arg-111, Ser-117 to Gly-122, Glu-132 to Ala-140, Pro-247 to Arg-252, Val-301 to Ala-308, Pro-334 to Ser-339, Arg-348 to Thr-354, Glu-427 to Gly-439, Gly-442 to Glu-448, Ala-457 to Gly-463.	H0251: 6, L0803: 4, L0439: 4, L0794: 3, L0659: 3, S0206: 3, L0749: 3, H0624: 2, H0713: 2, H0341: 2, H0599: 2, H0575: 2, H0050: 2, H0328: 2, H0413: 2, L0805: 2, L0776: 2, H0716: 1, H0662: 1, S0356: 1, S0360: 1, H0733: 1, H0208: 1, H0586: 1, H0333: 1, H0486: 1,				

									H0618: 1, H0318: 1, H0123: 1, L0471: 1, H0024: 1, T0006: 1, H0644: 1, S0210: 1, L0769: 1, L0638: 1, L0648: 1, L0662: 1, L0804: 1, L0375: 1, L0806: 1, L0783: 1, L0809: 1, L5622: 1, L0789: 1, L0790: 1, H0689: 1, H0539: 1, H0789: 1, S3014: 1, L0744: 1, L0751: 1, L0777: 1, L0731: 1, H0445: 1 and L2174: 1.			
	HMWGY65	794987	447	42 - 608	963	Pro-18 to Gly-30.						
200	HNEAC05	519340	210	101 - 418	726	Met-1 to Gly-8, Thr-33 to Cys-38, Arg-79 to Arg-89.				H0179: 1		
201	HNEEB45	1036397	211	139 - 312	727	Thr-43 to Arg-51.				H0179: 1 and H0100: 1.		
	HNEEB45	842650	448	226 - 399	964							
202	HNEEE24	553558	212	213 - 428	728					L0747: 2, L0758: 2, H0580: 1 and H0179: 1.		
203	HNFFC43	753337	213	488 - 691	729	Asp-21 to Ser-29.				H0521: 6, H0036: 2, H0052: 2, H0271: 2, H0551: 2, H0543: 2, H0265: 1, H0556: 1, S0354: 1, H0392: 1, H0581: 1, H0063: 1,		

								H0059: 1, H0494: 1, H0561: 1, L3829: 1, H0520: 1, H0522: 1, S0436: 1, L0595: 1, H0506: 1 and L0600: 1.			
204	HNFY77	634551	214	228 - 929	730	Pro-47 to Met-53, Ser-130 to Ser-138.		L0539: 1, S0442: 1, H0619: 1, H0581: 1, T0010: 1, H0416: 1, H0622: 1, H0131: 1, H0521: 1 and H0653: 1.			
205	HNFJF07	577013	215	86 - 286	731	Val-25 to Gly-33.		H0271: 2, H0581: 1, H0051: 1, H0163: 1, L0599: 1 and H0422: 1.			
206	HNGAK47	561488	216	89 - 211	732			H0271: 1 and S0052: 1.			
207	HNGBC07	1037631	217	81 - 830	733	Glu-30 to Arg-44, Asp-58 to Cys-67, Pro-70 to Pro-75.		S0052: 2	22		
	HNGBC07	904311	449	122 - 256	965	Gly-27 to Ser-42.					
	HNGBC07	904812	450	55 - 189	966	Gly-27 to Ser-42.					
208	HNGDG40	532617	218	13 - 393	734	Gln-2 to Gly-10, Asp-77 to Phe-82.		S0052: 1			
209	HNGEP09	499076	219	72 - 320	735	Asp-45 to Thr-50.		S0052: 2			
210	HNGFR31	553552	220	108 - 380	736			S0052: 1			
211	HNGIJ31	519120	221	135 - 245	737	Pro-18 to Glu-25.					
212	HNGJE50	561568	222	77 - 217	738			S0052: 1			
213	HNGJT54	498272	223	172 - 276	739			S0052: 1 and S0428: 1.			
214	HNGND37	839224	224	388 - 636	740	Asn-46 to Ser-54.		L0749: 4, L0439: 3, H0100: 2, L0770: 2, L0776: 2, H0556: 1,			

									H0638: 1, H0441: 1, T0010: 1, H0687: 1, L0055: 1, L0769: 1, L0809: 1, S0428: 1, H0522: 1, H0694: 1, L0758: 1, L0589: 1 and L0592: 1.		
215	HNGOI12	1041375	225	27 - 200	741	Met-1 to Gly-9.	S0428: 1	11			
	HNGOI12	838184	451	27 - 200	967	Met-1 to Gly-9.					
	HNGOI12	839283	452	596 - 877	968						
216	HNGOM56	836064	226	391 - 558	742	Pro-25 to Glu-40, Lys-50 to His-55.	S0428: 2 and L0368: 1.				
217	HNGOU56	843515	227	317 - 496	743	Ser-34 to Thr-40.	S0428: 1				
218	HNGOW62	892160	228	167 - 331	744	Ser-22 to His-40.	H0556: 1 and S0428: 1.				
219	HNHEU93	634851	229	57 - 302	745		S0053: 1				
220	HNHFM14	664507	230	38 - 280	746	Glu-67 to Ala-74.	L0747: 5, H0619: 4, S0406: 4, L0439: 4, L0777: 4, H0617: 2, L0770: 2, L0769: 2, L0803: 2, L0438: 2, L3827: 2, S0328: 2, L0749: 2, L0779: 2, H0265: 1, L3643: 1, H0484: 1, S0418: 1, H0747: 1, L3388: 1, H0618: 1, S0010: 1, H0052: 1, H0570: 1, H0012: 1, H0014: 1, H0510: 1, H0288: 1, H0622: 1, S0366: 1,	1			

									H0040: 1, H0623: 1, L0351: 1, T0042: 1, L0761: 1, L0764: 1, L0767: 1, L0805: 1, L0655: 1, L0809: 1, S0053: 1, L3828: 1, H0520: 1, H0435: 1, H0659: 1, S3014: 1, L0743: 1, L0756: 1, L0758: 1 and H0136: 1.			
221	HNHFO29	463568	231	160 - 699	747	Lys-97 to Gln-106, Gln-112 to Pro-118, Pro-123 to Lys-130, Arg-153 to Gly-158.			T0042: 1 and S0053: 1.			
222	HNHNB29	895462	232	40 - 201	748	Glu-17 to Lys-30, Val-43 to Asn-53.			S0216: 1			
223	HNHOD46	843488	233	12 - 251	749				S0216: 1			
224	HNHOG73	835026	234	342 - 497	750	Ala-35 to Leu-43.			L0365: 1 and S0216: 1.			
225	HNTBI26	1310821	235	28 - 990	751	Pro-56 to Pro-63, Met-92 to Thr-98, Ser-112 to Pro-120, Pro-162 to Glu-173, Ala-200 to Ser-210, Lys-311 to Asn-320.			H0124: 23, L0774: 4, L0740: 3, S0212: 2, S0360: 2, L3388: 2, L0659: 2, L0757: 2, S0436: 2, H0170: 1, H0713: 1, H0580: 1, S0045: 1, H0393: 1, S0220: 1, H0333: 1, H0643: 1, H0574: 1, H0013: 1, S0280: 1, H0581: 1, H0544: 1, H0150: 1, H0059: 1,			

									H0509: 1, L0369: 1, L0640: 1, L0521: 1, L0363: 1, L0775: 1, L0654: 1, L0776: 1, L0559: 1, L0384: 1, L0790: 1, L0664: 1, L2258: 1, L2260: 1, H0519: 1, S0027: 1, S0206: 1, L0747: 1, L0749: 1, L0780: 1, L0731: 1, L0759: 1 and H0542: 1.			
	HNTBI26	796807	453	32 - 547	969	Pro-56 to Pro-63, Met-92 to Thr-98, Ser-112 to Pro-120, Pro-162 to Ser-169.						
	HNTBI26	590738	454	16 - 411	970	Pro-56 to Pro-63, Met-92 to Thr-98, Arg-107 to Pro-120.						
226	HNTBL27	545534	236	100 - 447	752	Arg-45 to Thr-52, Tyr-60 to Gly-66, Ala-87 to Trp-92, Leu-105 to Ser-115. L0794: 3, L0663: 2, S0360: 1, H0042: 1, H0253: 1, H0150: 1, H0633: 1, S0142: 1, H0538: 1, L0804: 1, L0790: 1, L0791: 1, L0666: 1, L0664: 1, L0665: 1, H0519: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, L0755: 1 and L0731: 1.						

227	HNTCE26	1160395	237	111 - 1316	753	<p>Tyr-2 to Gly-15, Trp-192 to Asp-199, Lys-248 to Leu-253, Arg-330 to Lys-336, Gln-354 to Val-364, Val-383 to Ser-392.</p>	H0580: 5, L0754: 5, H0615: 4, L0805: 4, L0748: 4, L0731: 4, H0031: 3, S0440: 3, L0659: 3, L0758: 3, L2346: 2, S0278: 2, L0804: 2, L0809: 2, H0547: 2, H0352: 2, H0657: 1, H0656: 1, S0418: 1, S0442: 1, S0444: 1, L3649: 1, H0741: 1, H0645: 1, H0574: 1, H0486: 1, L3521: 1, H0013: 1, S0010: 1, H0327: 1, H0046: 1, L0041: 1, H0510: 1, S0214: 1, H0328: 1, H0030: 1, H0553: 1, H0644: 1, H0032: 1, S0344: 1, S0002: 1, L0369: 1, L0667: 1, L0364: 1, L0794: 1, L0803: 1, L0775: 1, L0776: 1, L0789: 1, L0666: 1, L0663: 1, L2653: 1, L0438: 1, H0519: 1, H0670: 1, H0521: 1, L0744: 1, L0439: 1, L0747: 1, L0779: 1,		
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231	HODFN71	1194866	241	1 - 477	757	Lys-50 to Phe-57, Ser-70 to Arg-77, Tyr-81 to Ser-87, Pro-112 to Thr-117.	H0423: 1. H0615: 2 and H0624: 1.		
	HODFN71	834999	457	27 - 473	973	Lys-39 to Phe-46, Ser-59 to Arg-66, Tyr-70 to Ser-76, Pro-101 to Thr-106.			
232	HODGE68	834907	242	87 - 266	758	Leu-2 to Gln-7.	H0615: 1		
233	HOEDB32	634994	243	104 - 784	759	Pro-34 to Ser-43, Glu-54 to Ser-60.	L0807: 6, L0747: 5, S0126: 4, L0779: 4, L0771: 3, H0696: 3, L0740: 3, L0750: 3, S0358: 2, S0222: 2, L0471: 2, L0772: 2, L0662: 2, L0774: 2, L0809: 2, H0690: 2, H0670: 2, S0378: 2, L0439: 2, L0755: 2, L0757: 2, L0362: 2, T0049: 1, S0180: 1, S0212: 1, H0662: 1, S0442: 1, S0360: 1, H0722: 1, H0208: 1, H0486: 1, T0039: 1, T0040: 1, L2637: 1, L0021: 1, H0327: 1, H0546: 1, H0545: 1, H0123: 1, H0012: 1,		

							His-370 to Thr-378, Asn-380 to Cys-386, Glu-391 to Cys-399, Leu-421 to Arg-426, Glu-454 to Tyr-459.			
	HOFMQ33	919896	458	48 - 1502	974		Leu-37 to Gly-44, Pro-46 to Gly-51, Thr-137 to Leu-144, Ala-178 to Asn-184, Asp-194 to Val-201, Leu-252 to Glu-258, Asp-280 to Tyr-293, Asn-296 to Thr-301, Asp-322 to Asp-348, Asn-363 to Ser-368, His-370 to Thr-378, Asn-380 to Cys-386, Glu-391 to Cys-399, Leu-421 to Arg-426, Glu-454 to Tyr-459.			
	HOFMQ33	906694	459	78 - 875	975		Leu-37 to Gly-43.			
	HOFMQ33	902639	460	724 - 741	976					
	HOFMQ33	702186	461	123 - 374	977		Met-2 to Ser-9.			
235	HOFMT75	911180	245	83 - 1315	761		Thr-30 to Met-36, His-121 to Thr-136, Leu-231 to Gly-236, Thr-248 to Pro-256, Gly-342 to Thr-353.	H0415: 3, S0002: 2, S0212: 1, H0255: 1, S0358: 1, H0318: 1, H0045: 1, H0264: 1, S0144: 1, H0555: 1 and L0741: 1.		
	HOFMT75	905365	462	83 - 427	978		Thr-30 to Met-36.			

									L0774: 2, L0805: 2, L0776: 2, L0783: 2, L0809: 2, L0751: 2, L0747: 2, S0040: 1, S0420: 1, S0442: 1, S0376: 1, S0360: 1, S0408: 1, H0580: 1, H0550: 1, L0586: 1, H0036: 1, S0346: 1, H0581: 1, T0110: 1, H0597: 1, H0530: 1, H0123: 1, H0083: 1, H0354: 1, H0510: 1, T0069: 1, H0560: 1, S0210: 1, L0763: 1, L0637: 1, L0646: 1, L0800: 1, L0771: 1, L0773: 1, L0775: 1, L0659: 1, L0789: 1, L0666: 1, H0691: 1, H0576: 1, H0478: 1, H0626: 1, L0731: 1, H0444: 1, L0592: 1 and S0242: 1.					
	HOF0C73	907073	465	23 - 226	981	Thr-47 to Pro-55.								
	HOF0C73	907072	466	127 - 171	982	Pro-1 to Val-7.								
	HOF0C73	878863	467	142 - 162	983									
238	HOGAW62	579891	248	259 - 426	764	Met-1 to Gly-6, Trp-23 to Arg-29, Ala-38 to Ser-45.	H0435: 2, S0114: 1, L0606: 1 and H0779: 1.							

239	HOHCH55	827481	249	221 - 1702	765	Met-1 to Phe-6, Arg-44 to Arg-52, His-64 to Cys-69, Tyr-99 to Gln-147, His-158 to Gly-169, Phe-177 to Asp-182, Cys-194 to Cys-202, Gly-213 to Phe-218, Pro-224 to Gly-236, Asp-254 to Trp-261, Asp-263 to Ala-303, Trp-305 to Cys-316, Lys-326 to Asp-332, Pro-334 to Cys-343, Pro-350 to Asp-370, Thr-407 to Asn-413, Gly-425 to Cys-431, Asp-449 to Asp-459, Gly-472 to Asn-483.	S0276: 12, S0196: 5, H0024: 4, S0250: 4, S0022: 3, S0040: 2, S0028: 2, S0298: 1, T0082: 1, H0545: 1, S0206: 1, S0011: 1 and S0194: 1.		
	HOHCH55	815682	468	230 - 1636	984	Met-1 to Phe-6, Arg-44 to Arg-52, His-64 to Cys-69, Tyr-99 to Gln-147, His-158 to Gly-169, Phe-177 to Asp-182, Cys-194 to Cys-202, Gly-213 to Phe-218, Pro-224 to Gly-236, Asp-254 to Trp-261, Asp-263 to Ala-303,			

							Trp-305 to Cys-316, Lys-326 to Asp-332, Pro-334 to Cys-343, Pro-350 to Asp-370, Thr-407 to Asn-413, Gly-425 to Cys-431, Asp-449 to Gly-460.				
240	HOQBJ82	1352356	250	361 - 852	766		Ser-30 to Met-36, Ile-38 to Pro-46, Gln-78 to Gly-88, Thr-98 to Pro-105, Gly-110 to Ser-122, Ser-136 to Trp-144.				L0766: 12, L0758: 7, H0616: 4, L0439: 4, L0754: 4, L0747: 4, L0779: 4, L0777: 4, L0601: 4, H0657: 3, H0656: 3, H0081: 3, H0031: 3, H0038: 3, S0222: 2, H0455: 2, H0618: 2, H0617: 2, T0042: 2, H0494: 2, S0210: 2, H0529: 2, L0769: 2, L0662: 2, L0794: 2, L0665: 2, H0445: 2, H0543: 2, H0170: 1, H0394: 1, H0556: 1, T0002: 1, S0029: 1, H0662: 1, S0358: 1, S0045: 1, S0046: 1, S0140: 1, L0717: 1, H0370: 1, H0392: 1, H0497: 1, H0574: 1, H0253: 1, H0318: 1, H0597: 1,

						Gln-78 to Gly-88, Thr-98 to Pro-105, Gly-110 to Ser-122.				
	HOQBJ82	857453	470	55 - 1029	986					
241	HOSBY40	589431	251	89 - 259	767				S0418: 1, H0393: 1, S0003: 1, L0766: 1, L0804: 1 and S0052: 1.	
242	HOSDJ25	854234	252	1076 - 1195	768	Gly-18 to Lys-23, Pro-31 to Gly-38.			L0754: 4, L0749: 4, L0659: 3, L0755: 3, S0356: 2, L0803: 2, L0750: 2, L0779: 2, L0599: 2, S0029: 1, H0661: 1, S0354: 1, H0642: 1, T0040: 1, L0021: 1, H0599: 1, H0510: 1, S0003: 1, H0674: 1, H0316: 1, H0623: 1, S0422: 1, L0794: 1, L0522: 1, L0774: 1, L0526: 1, L0809: 1, H0520: 1, H0659: 1, H0670: 1, L0752: 1, L0608: 1 and S0242: 1.	
	HOSDJ25	566845	471	146 - 268	987	Gly-18 to Lys-23, Pro-31 to Gly-38.				
243	HOSFD58	614040	253	56 - 1927	769	Asn-15 to Trp-20, Ser-36 to Gly-41, Pro-103 to Val-110, Pro-134 to Arg-143,			L0666: 8, H0013: 7, H0046: 7, S0126: 7, S0214: 6, L0756: 6, L0439: 5, L0749: 5,	

					H0581: 1, T0115: 1, H0050: 1, L0471: 1, H0014: 1, H0373: 1, H0051: 1, S0051: 1, T0010: 1, S6028: 1, H0266: 1, H0687: 1, H0428: 1, H0039: 1, H0553: 1, H0644: 1, H0628: 1, H0674: 1, H0124: 1, H0090: 1, H0551: 1, T0067: 1, H0268: 1, L0351: 1, T0041: 1, T0042: 1, S0440: 1, H0641: 1, H0646: 1, S0142: 1, S0344: 1, S0002: 1, H0529: 1, L0763: 1, L0769: 1, L0643: 1, L0771: 1, L0521: 1, L0794: 1, L0766: 1, L0803: 1, L0774: 1, L0651: 1, L0517: 1, L0519: 1, L5622: 1, L0664: 1, L0665: 1, L0352: 1, L3827: 1, H0519: 1, S0122: 1, H0689: 1, H0648: 1, H0672: 1, H0539: 1, S0380: 1, S0136: 1, H0478: 1, L0744: 1,	
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									L0779: 1, L0780: 1, L0758: 1, L0759: 1, S0436: 1, L0599: 1, S0026: 1, H0665: 1, H0136: 1 and H0542: 1.			
	HOSFD58	383513	472	477 - 659	988	Gly-28 to Leu-42, Met-52 to Leu-58.						
244	HPDDC77	1306899	254	51 - 446	770	Arg-29 to Pro-37, Gln-46 to Val-56.			L0754: 5, L0752: 5, H0616: 4, L0362: 4, L0717: 3, H0587: 3, H0013: 3, L0766: 3, L0804: 3, S0136: 3, L0744: 3, L0745: 3, L0485: 3, L0005: 2, S0360: 2, H0156: 2, L0021: 2, H0575: 2, H0581: 2, H0271: 2, H0687: 2, H0039: 2, H0553: 2, H0598: 2, H0413: 2, L0649: 2, L0774: 2, L0809: 2, L0666: 2, H0593: 2, S0378: 2, L0751: 2, H0543: 2, H0624: 1, H0170: 1, H0657: 1, S0116: 1, S0376: 1, T0008: 1, H0586: 1, H0486: 1, H0635: 1, H0427: 1, H0274: 1, H0009: 1, H0123: 1,			

									H0266: 1, S0340: 1, S0003: 1, H0252: 1, T0023: 1, H0032: 1, H0674: 1, H0040: 1, H0488: 1, S0438: 1, S0422: 1, H0529: 1, L0369: 1, L0762: 1, L0646: 1, L0773: 1, L0648: 1, L0662: 1, L0775: 1, L0655: 1, L0527: 1, L0659: 1, L0663: 1, L0664: 1, L0665: 1, S0428: 1, H0144: 1, H0702: 1, S0374: 1, H0435: 1, H0658: 1, H0670: 1, H0521: 1, H0187: 1, H0436: 1, L0750: 1, L0686: 1, L0599: 1, S0192: 1, S0242: 1, S0194: 1 and H0506: 1.			
	HPDDC77	422936	473	510 - 905	989	Arg-29 to Pro-37, Gln-46 to Val-56.						
245	HPEAD79	520202	255	51 - 176	771	Lys-16 to Ser-21, Gly-36 to Asp-41.	H0165: 1					
246	HPFCL43	535710	256	21 - 260	772	Pro-14 to Asp-25, Leu-51 to Val-63.	L0766: 3, L0731: 3, S0358: 2, H0529: 2, L0794: 2, L0777: 2, L0759: 2, H0624: 1, H0657: 1, S0408: 1,					

								H0441: 1, H0562: 1, H0083: 1, H0169: 1, H0413: 1, L0763: 1, L0500: 1, L0772: 1, L0768: 1, L5574: 1, L0803: 1, L0804: 1, L0655: 1, L0809: 1, L0664: 1, H0144: 1, S0374: 1, H0648: 1, L0742: 1, L0745: 1, L0750: 1, L0752: 1, L0758: 1 and H0422: 1.			
247	HPIBO15	1310868	257	128 - 763	773	Asp-40 to Glu-50, Ser-59 to Gly-69, Leu-109 to Lys-117, Tyr-130 to Leu-137, Leu-140 to Glu-160, Gly-202 to Tyr-208.		L0747: 8, L0749: 5, L0755: 5, H0013: 3, L0769: 3, L0731: 3, S0212: 2, L0770: 2, L0803: 2, H0144: 2, L0756: 2, H0624: 1, H0171: 1, S0282: 1, H0776: 1, H0592: 1, H0427: 1, H0575: 1, H0041: 1, H0124: 1, H0163: 1, H0038: 1, L0637: 1, L0774: 1, L0775: 1, L0791: 1, H0648: 1, H0756: 1, S0028: 1, L0439: 1, L0777: 1 and S0436: 1.			
	HPIBO15	590741	474	127 - 648	990	Asp-40 to Glu-50, Ser-59 to Gly-69,					

							Ala-98 to His-105, Arg-108 to Glu-114, Pro-124 to Ser-138, Ala-143 to Gly-154.				
248	HPICB53	1042309	258	170 - 325	774			S0150: 1	11,12		
	HPICB53	867835	475	163 - 318	991						
249	HPJBI33	685699	259	236 - 397	775		Arg-30 to Gln-36.	S0152: 1			
250	HPJBK12	1011467	260	126 - 272	776			S0152: 2	4,8		
	HPJBK12	525375	476	119 - 265	992						
	HPJBK12	796925	477	969 - 1001	993						
	HPJBK12	699587	478	509 - 523	994						
251	HPMDK28	846357	261	64 - 669	777		Ala-55 to Asn-60, Lys-65 to Met-71, Leu-75 to Asn-86, Asp-93 to Asp-110, Leu-130 to Cys-138, Gln-149 to Glu-154, Thr-172 to Ile-179, Glu-185 to Arg-192.	S0358: 5, L0809: 4, L0742: 4, L0743: 4, L0590: 4, H0543: 4, S0360: 3, H0031: 3, S0422: 3, L0763: 3, L0764: 3, L0766: 3, L0754: 3, H0716: 2, H0333: 2, H0266: 2, H0617: 2, L4497: 2, L0769: 2, L0776: 2, H0658: 2, H0696: 2, L0748: 2, L0749: 2, H0445: 2, S0434: 2, S0110: 1, H0663: 1, L0481: 1, H0730: 1, H0747: 1, H0411: 1, H0431: 1, H0370: 1, H0574: 1, H0632: 1, L2490: 1, H0253: 1,			

								L0456: 1, H0124: 1, H0708: 1, S0036: 1, H0038: 1, H0616: 1, H0087: 1, H0059: 1, H0280: 1, S0440: 1, S0150: 1, H0633: 1, L0369: 1, L0763: 1, L0769: 1, L0638: 1, L0637: 1, L5566: 1, L0761: 1, L0772: 1, L0648: 1, L0803: 1, L0650: 1, L0805: 1, L0809: 1, L0647: 1, L0665: 1, H0539: 1, H0521: 1, H0696: 1, H0555: 1, L0754: 1, L0749: 1, L0753: 1, L0755: 1, L0757: 1, L0605: 1, L0599: 1 and L3352: 1.			
	HPRAL78	844216	480	70 - 1245	996	Pro-31 to Thr-48, Arg-62 to Gly-70, Ala-74 to Glu-87, Lys-123 to Asp-129, Pro-162 to Gly-167, Glu-170 to Gly-189, Arg-220 to Asn-228.					
	HPRAL78	484735	481	148 - 339	997	Ser-49 to Arg-54.					
254	HPRBC80	829136	264	94 - 1254	780	Asp-6 to His-13, Asp-114 to Gly-131,	L0805: 5, L0809: 5, L0759: 4, L0740: 3,				

	HPRBC80	720095	482	404 - 613	998				
255	HPTTG19	635033	265	215 - 364	781			H0424: 3, H0637: 2, H0213: 2, H0265: 1, H0556: 1, L0375: 1 and L0530: 1.	
256	HPZAB47	585702	266	34 - 177	782	Lys-32 to Lys-38.		L0530: 2, S0470: 1, S0360: 1, T0003: 1, H0488: 1, L0789: 1, S0378: 1 and S0168: 1.	
257	HRAAB15	658717	267	35 - 514	783	Asn-49 to Gln-54, Glu-150 to Asp-159.		L0809: 2, S0374: 2, H0556: 1, H0580: 1, S0222: 1, H0551: 1, L0770: 1, L0796: 1, L0800: 1, L0804: 1, L0655: 1, H0555: 1 and L0779: 1.	
258	HRABA80	882176	268	144 - 452	784	Ala-30 to Gly-36, Asp-45 to Trp-50, Lys-65 to Cys-71, Pro-80 to Cys-87.		H0555: 1	
	HRABA80	588460	483	130 - 438	999	Ala-30 to Gly-36, Asp-45 to Trp-50, Lys-65 to Cys-71, Pro-80 to Cys-87.			
259	HRACD15	871221	269	252 - 410	785			H0556: 15, H0265: 8, L0751: 8, H0617: 7, L0662: 7, L0766: 5, L0809: 5, H0040: 4, H0494: 4, S0142: 4, L0769: 4, H0555: 4,	

	HRACD15	706332	484	252 - 413	1000				
260	HRACJ35	877666	270	132 - 1550	786	Arg-31 to Lys-37, Lys-58 to Glu-65, Asp-157 to Gly-168, Ile-219 to Gly-225, Ala-260 to Ser-268, Thr-276 to Glu-282.	L0731: 11, L0803: 7, L0748: 7, L0517: 6, L0809: 6, L0749: 6, L0439: 5, S0410: 4, S0002: 4, L0770: 4, L0794: 4, L0805: 4, L3212: 4, S0436: 4, L3388: 3, H0553: 3, L0506: 3, L0747: 3, L0752: 3, H0713: 2, H0661: 2, H0244: 2, H0156: 2, H0644: 2, L0662: 2, L0775: 2, L0666: 2, L0438: 2, H0521: 2, L0757: 2, L0758: 2, L0759: 2, H0171: 1, S0040: 1, H0650: 1, S0212: 1, S0358: 1, S0444: 1, S0360: 1, H0580: 1, H0722: 1, H0208: 1, H0619: 1, H0441: 1, H0537: 1, H0497: 1, H0333: 1, H0632: 1, T0060: 1, H0013: 1, H0427: 1, S0346: 1, H0052: 1, H0231: 1, H0166: 1, H0673: 1, S0364: 1, L0455: 1		

									H0163: 1, H0040: 1, S0015: 1, H0745: 1, H0509: 1, H0652: 1, S0210: 1, S0426: 1, L0796: 1, L0766: 1, L0804: 1, L0774: 1, L0776: 1, L0659: 1, L0526: 1, L0783: 1, L0529: 1, L0647: 1, L0665: 1, H0144: 1, H0696: 1, H0555: 1, L0611: 1, S0028: 1, S0206: 1, L0751: 1, L0745: 1, S0260: 1, L0599: 1, H0668: 1, L0698: 1 and S0460: 1.			
	HRACJ35	730504	485	99 - 1517	1001	Arg-31 to Lys-37, Lys-58 to Glu-65, Asp-157 to Gly-168, Ile-219 to Gly-225, Ala-260 to Ser-268, Thr-276 to Glu-282.						
	HRACJ35	470546	486	1 - 534	1002	Ile-9 to Gly-15, Ala-50 to Ser-58, Thr-66 to Glu-72.						
261	HRDFD27	567004	271	82 - 333	787		H0305: 2, H0124: 2 and L0749: 1.					
262	HRGBL78	910133	272	30 - 1109	788	Thr-48 to Arg-56, Pro-122 to Glu-127, Lys-135 to Cys-143,	L0740: 25, L0766: 5, L0655: 4, H0650: 2, H0657: 2, H0656: 2,	1				

						Ala-180 to Gly-185, Ala-230 to Tyr-238, Thr-244 to Gln-255, Pro-274 to Ser-279, Thr-284 to Phe-306, Leu-345 to Thr-354.	H0402: 2, H0581: 2, L0761: 2, L0794: 2, H0306: 1, S0408: 1, H0318: 1, H0046: 1, H0266: 1, S0038: 1, H0429: 1, H0560: 1, S0344: 1, L0789: 1, S0053: 1, H0689: 1, H0134: 1, L0779: 1, L0777: 1 and H0445: 1.			
	HRGBL78	904040	487	30 - 626	1003	Thr-48 to Arg-56, Pro-122 to Glu-127, Ala-136 to Tyr-141.				
	HRGBL78	904621	488	11 - 19	1004					
	HRGBL78	863802	489	1048 - 1146	1005	Pro-24 to Arg-32.				
263	HROAJ03	567005	273	19 - 597	789	Lys-41 to Arg-47, Asp-125 to Lys-139, Ser-177 to Glu-185.	H0646: 2, L0783: 2, L0751: 2, H0222: 1, L3645: 1, H0409: 1, H0559: 1, H0590: 1, H0581: 1, L0471: 1, H0622: 1, H0316: 1, H0623: 1, L0788: 1, H0689: 1, S0328: 1, S0390: 1, L0777: 1, L0731: 1 and L0462: 1.			
264	HROAJ39	1181699	274	10 - 1146	790	Ile-4 to Tyr-10, Arg-119 to Pro-126, Glu-152 to Gly-158, Thr-209 to Phe-215.	H0316: 1, L3905: 1, L0565: 1, L0438: 1, H0521: 1, L0439: 1 and L0594: 1.			
	HROAJ39	1114849	490	31 - 879	1006	Arg-40 to Pro-47,				

							Glu-73 to Gly-79, Thr-130 to Phe-136, Lys-277 to Lys-283.			
	HROAJ39	1027712	491	247 - 1104	1007		Arg-40 to Pro-47, Glu-73 to Gly-79, Thr-130 to Phe-136.			
265	HROBD68	827306	275	122 - 268	791		Thr-19 to Thr-25.	L0509: 9, L0766: 4, L0515: 2, L0783: 2, S0342: 1, S0114: 1, S0218: 1, H0589: 1, H0645: 1, H0592: 1, H0250: 1, H0581: 1, H0057: 1, H0252: 1, H0328: 1, H0674: 1, H0598: 1, H0090: 1, H0634: 1, H0488: 1, H0625: 1, S0426: 1, L0506: 1, L0667: 1, L0499: 1, L0803: 1, L0493: 1, L0514: 1, L0511: 1, L0809: 1, S0052: 1, S0428: 1, H0683: 1, S0152: 1, S0136: 1, L0748: 1, L0751: 1, L0759: 1, L0599: 1 and H0543: 1.		
266	HSATR82	531973	276	74 - 199	792			S0114: 2 and L0600: 1.		
267	HSAVH65	545459	277	104 - 406	793		Ser-58 to His-64.	S0114: 2, H0686: 1, L2255: 1, L0769: 1, L0644: 1, L0662: 1,		

								L0774: 1, L0666: 1, L2257: 1, L2263: 1, H0659: 1, L0750: 1 and S0436: 1.			
268	HSAWD74	460527	278	142 - 570	794		Leu-51 to Gly-77, Ile-117 to Pro-125.	H0068: 3, S0114: 2, L0534: 2, L0740: 2, H0717: 1, S0134: 1, S0442: 1, S0354: 1, S0476: 1, H0333: 1, H0009: 1, H0560: 1, L5565: 1 and H0576: 1.	7		
	HSAWD74	371416	492	122 - 256	1008		Thr-25 to Cys-30, Pro-35 to Arg-42.				
269	HSAWZ41	580872	279	98 - 271	795		Ile-46 to Tyr-56.	H0305: 4, H0589: 2 and S0114: 1.			
270	HSAXA83	545051	280	92 - 316	796			H0013: 2, H0375: 2, H0521: 2, S0114: 1, S0134: 1, H0341: 1, S0444: 1, H0728: 1, H0735: 1, T0110: 1, H0046: 1, H0457: 1, H0050: 1, H0553: 1, H0202: 1, H0396: 1, L0794: 1, L0803: 1, L0776: 1, L5623: 1, L0789: 1, L0709: 1, H0520: 1, S0044: 1, S0436: 1, L0588: 1 and H0653: 1.			
271	HSAYB43	604143	281	89 - 226	797	Asp-29 to Tyr-34.		S0053: 2, S0114: 1,			

272	HSDEK49	1352253	282	60 - 1256	798	Val-29 to Val-37, Asp-71 to His-76, Gln-78 to Gly-84, Met-105 to His-110, Trp-117 to Asn-123, Lys-179 to Pro-187, Gly-218 to Asp-224, Leu-237 to Ala-243, Thr-256 to Asp-268, Ser-275 to Lys-280, Arg-308 to Glu-314, Glu-326 to Glu-332, Cys-343 to Asp-359.	S0052: 1 and S0216: 1. H0031: 7, L0439: 7, L0754: 7, L3388: 6, L0731: 6, S0002: 5, H0580: 4, H0575: 3, H0309: 3, L0438: 3, H0555: 3, L0758: 3, S0360: 2, L3649: 2, H0553: 2, S0344: 2, S0426: 2, L0775: 2, S0330: 2, L0747: 2, L0779: 2, S0260: 2, L0599: 2, L0603: 2, H0739: 1, H0170: 1, S0116: 1, S0354: 1, S0444: 1, L3645: 1, H0270: 1, S0280: 1, H0590: 1, H0581: 1, H0251: 1, H0014: 1, H0355: 1, H0030: 1, H0644: 1, H0674: 1, H0090: 1, H0063: 1, S0142: 1, L0770: 1, L0769: 1, L0651: 1, L0776: 1, L0659: 1, L0519: 1, L0664: 1, H0682: 1, L0749: 1, L0752: 1, S0031: 1 and H0506: 1.		
	HSDEK49	625998	493	126 - 1043	1009	Val-29 to Val-37,			

							Asp-71 to His-76, Gln-78 to Gly-84, Met-105 to His-110, Trp-117 to Gly-122, Gln-136 to Lys-141, Leu-143 to Ala-149, Thr-162 to Asp-174, Ser-181 to Lys-186, Arg-214 to Glu-220, Glu-232 to Glu-238, Cys-249 to Asp-265.				
273	HSDFJ26	834619	283	99 - 767	799		Ala-21 to Glu-31, Thr-37 to Cys-43, Asp-62 to Ser-79, Lys-134 to Gly-146, Leu-164 to Met-169, Glu-171 to Lys-201.	S0026: 6, S0360: 4, L0662: 4, L0747: 4, L0759: 4, L0755: 3, S0408: 2, H0575: 2, S0474: 2, H0251: 2, H0673: 2, L0766: 2, L0804: 2, L0665: 2, L0608: 2, H0543: 2, H0171: 1, H0686: 1, H0613: 1, H0427: 1, L0021: 1, T0082: 1, H0309: 1, H0150: 1, H0024: 1, L0163: 1, H0266: 1, H0271: 1, S0338: 1, H0252: 1, H0615: 1, H0428: 1, H0030: 1, H0040: 1, H0647: 1, L0369: 1, L0500: 1, L0769: 1,			

								L0638: 1, L0637: 1, L0764: 1, L0767: 1, L0768: 1, L0364: 1, L0794: 1, L0649: 1, L0775: 1, L0805: 1, L0659: 1, L0382: 1, L0666: 1, S0052: 1, H0697: 1, S0328: 1, S0330: 1, S0380: 1, H0521: 1, S0406: 1, H0478: 1, L0754: 1, L0745: 1, L0749: 1, L0779: 1, L0780: 1, L0752: 1, S0031: 1, L0601: 1, S0242: 1 and H0542: 1.			
	HSDFJ26	836071	494	99 - 317	1010	Ala-21 to Glu-31, Thr-37 to Cys-43, Pro-64 to Asp-69.					
274	HSDJJ82	460602	284	79 - 237	800	Pro-45 to Gln-52.	S0260: 1				
275	HSDSB09	1301498	285	16 - 423	801	Glu-33 to Glu-56, Thr-75 to Cys-81.	L0803: 14, L0774: 4, L0770: 2, H0409: 1, H0331: 1 and H0555: 1.				
	HSDSB09	463645	495	22 - 387	1011	Glu-33 to Glu-56, Thr-75 to Cys-81.					
276	HSDSE75	545057	286	160 - 705	802	Tyr-15 to Leu-59, Ala-68 to Asp-85, Pro-87 to Asn-96, His-120 to Lys-129, Ser-153 to Gln-170.	H0646: 2, L0783: 2, L0751: 2, H0222: 1, L3645: 1, H0409: 1, H0559: 1, H0590: 1, H0581: 1, L0471: 1,				

									H0622: 1, H0316: 1, H0623: 1, L0788: 1, H0689: 1, S0328: 1, S0390: 1, L0777: 1, L0731: 1 and L0462: 1.			
277	HSDZR57	651375	287	27 - 212	803			Glu-50 to Glu-61.	L0769: 4, L0803: 3, H0547: 3, H0484: 2, S0410: 2, H0644: 2, H0617: 2, H0413: 2, L0751: 2, H0556: 1, H0650: 1, S0420: 1, S0354: 1, S0360: 1, S0222: 1, H0455: 1, H0559: 1, H0575: 1, H0052: 1, H0545: 1, L0763: 1, L0800: 1, L0648: 1, L0662: 1, L0768: 1, L0794: 1, L0804: 1, L0809: 1, L0789: 1, H0699: 1, H0690: 1, H0660: 1, S0328: 1, L0740: 1, L0750: 1 and H0422: 1.			
278	HSIDJ81	589447	288	8 - 184	804			Glu-37 to Gly-45.	H0036: 1 and L0744: 1.			
279	HSKDA27	1352409	289	786 - 3635	805			Gly-31 to Arg-36, Thr-55 to Glu-62, Ser-64 to Ser-79, Arg-87 to Asp-96, Arg-103 to Ala-109,	S0212: 13, S0126: 12, L0777: 11, S0027: 10, S0028: 10, S0250: 7, H0717: 6, L0662: 6, L0747: 6, S0360: 5,			

						<p>Asp-120 to Arg-126, Gly-294 to Gly-302, Ser-305 to Ala-318, Val-320 to Arg-327, Pro-344 to Thr-351, Thr-383 to Thr-399, Leu-414 to Lys-435, Thr-449 to Ala-457, Gly-461 to Asn-479, Gly-483 to Gln-498, Ser-503 to Arg-514, Lys-532 to Ala-559, Leu-563 to Ser-611, Lys-632 to Tyr-638, Asn-667 to Lys-672, Leu-701 to Met-707, Ser-745 to Lys-755, Lys-761 to Leu-768, Pro-787 to Trp-792, Lys-871 to Met-883, Pro-914 to Tyr-923, Ser-925 to Arg-939, Glu-942 to Tyr-950.</p>	<p>S0022: 5, S0206: 5, L0779: 5, S0194: 5, L0659: 4, L0751: 4, L0731: 4, L0758: 4, H0713: 3, H0716: 3, S0444: 3, H0599: 3, L0163: 3, S0210: 3, L0807: 3, S0390: 3, S0037: 3, S3014: 3, L0740: 3, S0192: 3, H0295: 2, H0486: 2, H0706: 2, H0309: 2, H0023: 2, H0373: 2, H0266: 2, H0039: 2, H0038: 2, L0598: 2, L3872: 2, H0689: 2, L0757: 2, L0759: 2, L0599: 2, S0011: 2, S0040: 1, L2906: 1, S0298: 1, H0661: 1, H0663: 1, H0662: 1, S0420: 1, S0356: 1, S0442: 1, S0408: 1, L2338: 1, S0046: 1, H0411: 1, H0550: 1, H0586: 1, H0587: 1, H0333: 1, T0040: 1, T0060: 1, H0427: 1, H0251: 1, H0150: 1, H0050: 1, H0014: 1,</p>		
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							Thr-55 to Glu-62, Ser-64 to Ser-79, Arg-87 to Asp-96, Arg-103 to Ala-109, Asp-120 to Arg-126, Gly-294 to Gly-302, Ser-305 to Ala-318, Val-320 to Arg-327, Pro-342 to Thr-351, Thr-383 to Thr-399, Leu-414 to Lys-435, Thr-449 to Ala-457, Gly-461 to Asn-479, Gly-483 to Gln-498, Asn-504 to Val-509.				
	HSKDA27	872570	497	12 - 1673	1013		Gly-27 to Arg-32, Thr-51 to Glu-58, Ser-60 to Ser-75, Arg-83 to Asp-92, Arg-99 to Ala-105, Asp-116 to Arg-122, Gly-290 to Ala-314, Val-316 to Arg-323, Pro-338 to Arg-345, Thr-358 to His-375, Arg-403 to Ser-408, Ser-420 to Ser-436, Thr-447 to Ala-455, Gly-459 to Asn-477, Gly-481 to Gln-496,				

280	HSKGN81	676075	290	353 - 1132	806	Ser-501 to Arg-512, Lys-530 to Lys-554. Ile-60 to Asn-69, Leu-106 to Asp-112, Glu-130 to Gly-136, Phe-160 to Glu-167, Pro-184 to Cys-190, Glu-197 to Ser-202, Arg-215 to Glu-221, Thr-237 to Pro-242.	H0556: 14, L0666: 5, L0438: 5, L0439: 5, L0751: 5, H0266: 4, L0665: 4, L0777: 4, H0161: 3, H0645: 3, H0599: 3, H0594: 3, L0763: 3, H0436: 3, L0747: 3, L0758: 3, L0759: 3, H0423: 3, H0265: 2, H0141: 2, S0045: 2, S0476: 2, H0575: 2, H0421: 2, T0041: 2, H0529: 2, L0770: 2, L0771: 2, L0657: 2, L5623: 2, L0664: 2, H0670: 2, H0518: 2, S0044: 2, L0749: 2, L0757: 2, L0588: 2, L0599: 2, H0585: 1, L3643: 1, H0717: 1, H0716: 1, H0740: 1, H0583: 1, S0116: 1, H0341: 1, H0254: 1, H0255: 1, H0306: 1, H0402: 1, S0360: 1, S0408: 1, S0046: 1, S0132: 1, H0619: 1, H0549: 1,		
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					H0550: 1, S0222: 1, H0614: 1, H0392: 1, H0455: 1, H0613: 1, H0592: 1, H0586: 1, H0587: 1, S0005: 1, H0497: 1, H0492: 1, H0486: 1, H0250: 1, T0071: 1, H0581: 1, H0052: 1, H0309: 1, H0545: 1, H0050: 1, L0471: 1, H0024: 1, L0183: 1, H0267: 1, H0687: 1, H0286: 1, H0328: 1, L0483: 1, L0053: 1, H0628: 1, H0169: 1, H0674: 1, S0366: 1, H0038: 1, H0634: 1, H0264: 1, H0488: 1, H0268: 1, H0100: 1, T0042: 1, H0494: 1, S0014: 1, H0625: 1, H0509: 1, H0641: 1, S0002: 1, L0637: 1, L3905: 1, L0646: 1, L0773: 1, L0662: 1, L0768: 1, L0652: 1, L0776: 1, L0659: 1, L0783: 1, S0374: 1, H0783: 1, H0593: 1, S0126: 1,				
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									H0659: 1, H0658: 1, H0648: 1, H0672: 1, S3012: 1, S0028: 1, L0754: 1, L0750: 1, L0731: 1, S0260: 1, S0436: 1, L0596: 1, L0581: 1, S0242: 1, S0194: 1, H0543: 1, S0446: 1, H0506: 1 and H0008: 1.			
	HSKGN81	409905	498	537 - 608	1014	Thr-11 to Pro-22.						
281	HSLCQ82	1352226	291	226 - 477	807				L0744: 2, L0751: 2, L0777: 2, H0580: 1, H0013: 1, S0036: 1, L0659: 1, S0028: 1, L0779: 1, L0780: 1 and L0596: 1.			
	HSLCQ82	589526	499	233 - 406	1015							
282	HSNAD72	467397	292	220 - 327	808				H0163: 2			
283	HSNMC45	1352201	293	225 - 389	809	Glu-23 to Asn-31, Thr-38 to Gly-48.			H0163: 1			
	HSNMC45	545060	500	232 - 309	1016							
284	HSQFP66	460537	294	96 - 332	810	Ser-6 to Arg-15.			S0007: 1, H0555: 1 and S0026: 1.			
285	HSRFZ57	892171	295	82 - 207	811				S0022: 4			
286	HSSFT08	589978	296	125 - 301	812				H0135: 2, L0518: 1 and L0758: 1.			
287	HSSGD52	1352343	297	344 - 2161	813	Pro-7 to Cys-12, Lys-48 to Tyr-62, Arg-182 to His-187,			L0771: 6, L0743: 6, S0002: 5, L0770: 5, L0803: 5, L0805: 5,			

									S0148: 1, H0593: 1, S0126: 1, H0682: 1, H0684: 1, H0435: 1, S0328: 1, S0380: 1, H0710: 1, L3834: 1, H0696: 1, S0044: 1, S0146: 1, S0392: 1, H0627: 1, L0747: 1, L0750: 1, L0777: 1, L0759: 1, S0434: 1, S0026: 1, H0665: 1, H0136: 1 and H0542: 1.			
	HSSGD52	845666	501	338 - 2155	1017	Pro-7 to Cys-12, Lys-48 to Tyr-62, Arg-182 to His-187, Leu-189 to Glu-196, Thr-211 to Gly-226, Leu-270 to Thr-275, Gly-278 to Gly-289, Pro-444 to Asn-449, Glu-453 to Lys-461, Gly-491 to Thr-496, Ser-525 to Trp-532.						
288	HSSGG82	618535	298	203 - 391	814							
289	HSUBW09	413246	299	153 - 323	815	Asp-23 to Gly-29.						L0766: 5, L0749: 3, S0134: 2, L0770: 2, L0794: 2, L0809: 2, L0790: 2, H0556: 1, H0735: 1, L0622: 1, H0457: 1, H0561: 1,

								L0662: 1, L0804: 1, L5622: 1, H0436: 1, L0779: 1, L0731: 1, L0758: 1, H0136: 1 and H0506: 1.			
290	HSVBU91	596868	300	256 - 528	816	Asp-26 to Asn-31, Ser-37 to His-49, Ala-65 to Ser-73.		H0309: 1			
291	HSYAV50	847358	301	155 - 2173	817	Cys-28 to Pro-33, Arg-41 to Pro-52, Glu-118 to Glu-127, Tyr-130 to Arg-135, Ser-224 to Arg-230, Ser-322 to His-329, Glu-388 to Ala-396, Pro-404 to Pro-411, Ser-443 to Thr-454, Val-456 to Arg-462, Asn-500 to Arg-507.		L0659: 9, L0803: 6, L0794: 5, L0750: 4, S0212: 3, L0809: 3, L0665: 3, L0751: 3, L0759: 3, H0717: 2, S0298: 2, H0402: 2, H0392: 2, H0545: 2, S0250: 2, H0551: 2, L0768: 2, L0666: 2, L2654: 2, L0757: 2, H0667: 2, H0170: 1, H0713: 1, S0420: 1, S0444: 1, H0637: 1, H0592: 1, L0021: 1, H0575: 1, H0251: 1, H0544: 1, H0041: 1, H0014: 1, H0292: 1, H0553: 1, L0143: 1, H0628: 1, H0124: 1, H0616: 1, T0067: 1, H0509: 1, L0637: 1, L0800: 1, L0662: 1,			

									L0774: 1, L0653: 1, L0654: 1, L0807: 1, L0657: 1, L0647: 1, L2261: 1, H0682: 1, H0658: 1, H0648: 1, H0555: 1, S0028: 1, L0747: 1 and L0749: 1.			
292	HTAEE28	1018291	302	319 - 1167	818	Pro-255 to Leu-264.			H0250: 3, H0069: 2, L0771: 2, S0404: 2, H0650: 1, H0656: 1, H0486: 1, H0013: 1, H0318: 1, S0422: 1, L0644: 1, L0768: 1, L0794: 1, L0804: 1, L0655: 1, L0789: 1, L0664: 1, H0436: 1 and L0758: 1.			
	HTAEE28	882919	502	372 - 737	1018							
	HTAEE28	864120	503	124 - 771	1019							
293	HTECC05	1352365	303	13 - 546	819	Gly-41 to Leu-46, Asp-67 to Thr-75, Ile-114 to Gly-122, Pro-156 to Trp-161.			H0617: 10, S0410: 8, L0758: 8, L0769: 7, H0038: 6, L0439: 6, L0750: 6, L0752: 6, S0360: 5, L0775: 5, S0406: 5, H0150: 4, L0157: 4, H0620: 4, H0087: 4, S0440: 4, S0344: 4, L0763: 4, S0328: 4, L0747: 4, H0224: 3, H0484: 3,			

						H0402: 3, S0049: 3, H0708: 3, L0773: 3, L0805: 3, L0809: 3, L0519: 3, H0670: 3, L0748: 3, L0731: 3, L0757: 3, L0581: 3, H0295: 2, H0341: 2, S0444: 2, S0222: 2, L0622: 2, H0253: 2, H0309: 2, T0115: 2, H0544: 2, H0545: 2, H0081: 2, H0012: 2, H0673: 2, S0036: 2, H0616: 2, L0770: 2, L0774: 2, L0518: 2, H0725: 2, S0374: 2, H0696: 2, L0588: 2, H0543: 2, L0615: 1, H0160: 1, H0225: 1, H0713: 1, S6024: 1, S0430: 1, H0656: 1, S0116: 1, S0212: 1, H0483: 1, H0306: 1, H0638: 1, H0125: 1, S0420: 1, S0358: 1, S0408: 1, H0637: 1, S0476: 1, H0640: 1, H0411: 1, S0278: 1, H0441: 1, H0461: 1, H0298: 1, H0333: 1,					
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									H0659: 1, H0648: 1, H0521: 1, H0522: 1, S3014: 1, S0027: 1, L0755: 1, L0759: 1, H0445: 1, H0343: 1, H0595: 1, L0608: 1, H0136: 1, S0276: 1, H0542: 1, L0600: 1 and H0352: 1.			
	HTECC05	877448	504	21 - 404	1020	Gly-41 to Leu-46, Asp-67 to Thr-75, Ile-114 to Pro-127.						
	HTECC05	666743	505	27 - 518	1021	Gly-41 to Leu-46, Asp-67 to Thr-75, Ile-114 to Ala-123.						
294	HTEEB42	206980	304	59 - 952	820	Met-1 to His-7.			L0794: 4, H0624: 2, H0038: 2, L0375: 2, S0330: 2, L0750: 2, L0779: 2, H0031: 1, H0644: 1, H0124: 1, H0591: 1, H0616: 1, H0264: 1, H0623: 1, L0770: 1, L0637: 1, L0805: 1, L0663: 1, L0749: 1, L0777: 1, L0780: 1 and L0599: 1.			
295	HTEFU65	543396	305	231 - 371	821	Gly-35 to Gly-40.			H0486: 3, H0253: 1, H0544: 1, H0012: 1, S0388: 1, H0553: 1, H0090: 1, H0038: 1,			

								H0652: 1, L0769: 1, L0641: 1, L0806: 1, H0696: 1, L0748: 1, L0749: 1, S0031: 1 and S0196: 1.			
296	HTEGA76	381995	306	90 - 284	822			H0038: 1 and L0758: 1.			
297	HTELM16	834058	307	121 - 375	823	Ser-38 to Tyr-48, Gly-67 to Trp-74, Tyr-76 to Pro-84.		L0794: 7, L0779: 3, L0758: 3, H0559: 1, H0616: 1 and L0767: 1.			
298	HTELP17	836072	308	164 - 298	824			L0758: 3, S0408: 2, H0031: 2, H0038: 2, L0766: 2, H0521: 2, L0748: 2, H0341: 1, L3659: 1, S0476: 1, H0581: 1, S0051: 1, H0266: 1, H0111: 1, H0616: 1, L0794: 1, L0805: 1, L0787: 1, L0779: 1, L0759: 1, L0593: 1, H0542: 1 and H0543: 1.			
299	HTELS08	847090	309	15 - 491	825	Pro-98 to Gln-106.		H0616: 2, L0758: 2 and H0038: 1.			
300	HTEPG70	834931	310	365 - 634	826	Arg-71 to Ala-82.		H0616: 3, L0758: 3, L0717: 1, H0038: 1 and L0779: 1.			
301	HTGEP89	410582	311	285 - 569	827			L0775: 3, L0779: 2, L0758: 2, S0218: 1, S0001: 1, H0305: 1,			

									H0370: 1, H0574: 1, H0318: 1, H0597: 1, H0545: 1, H0081: 1, S0050: 1, H0014: 1, H0290: 1, H0328: 1, H0264: 1, H0494: 1, L0645: 1, L0805: 1, L0652: 1, L0789: 1, L0749: 1 and L0750: 1.			
311	HTOIZ02	826312	321	243 - 395	837	Arg-20 to Val-29.			H0264: 3, S0134: 2, H0318: 2, H0271: 2, L0748: 2, L0749: 2, H0556: 1, H0663: 1, H0402: 1, H0587: 1, H0013: 1, H0234: 1, H0252: 1, H0616: 1, H0561: 1, L0518: 1, L0544: 1, S0126: 1, S3012: 1, H0444: 1, H0445: 1 and L0596: 1.	17		
	HTOIZ02	847904	508	2 - 721	1024	Gly-1 to Glu-11, His-16 to Pro-24, Gly-31 to Arg-37, Asp-43 to Leu-49.						
312	HTOJK60	545067	322	217 - 315	838				L0438: 6, H0519: 5, H0156: 4, L0747: 4, L0758: 4, L0763: 3, L0783: 3, L0777: 3, T0002: 2, H0341: 2, H0663: 2, H0402: 2,			

									L0645: 1, L0521: 1, L0794: 1, L0650: 1, L0659: 1, L5623: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, H0547: 1, S0152: 1, L0740: 1, L0747: 1, L0750: 1, L0756: 1, L0779: 1, L0757: 1, L0758: 1, L0595: 1 and H0422: 1.			
	HTPCS72	566683	509	530 - 745	1025							
314	HTPIH83	919916	324	118 - 810	840	Ser-29 to Ser-34, Ser-186 to Asp-196, Arg-206 to Ser-225.	H0622: 7, S0360: 3, L0809: 3, L0804: 2, L0774: 2, L0775: 2, L0748: 2, H0484: 1, H0014: 1, S0440: 1, L0646: 1, L0643: 1, L0374: 1, L0764: 1, L0771: 1, L0773: 1, L0662: 1, L0803: 1 and L0788: 1.	X				
	HTPIH83	895024	510	111 - 530	1026	Ser-29 to Ser-34.						
	HTPIH83	898088	511	96 - 353	1027							
315	HTSEW17	460579	325	170 - 283	841		H0087: 1, S0002: 1, L0769: 1, L0789: 1, H0683: 1, H0670: 1, L0748: 1, L0749: 1, L0752: 1 and L0758: 1.					
316	HTTBI76	637725	326	133 - 534	842	Glu-55 to Arg-61,	L0803: 4, L0731: 4,					

						Gln-84 to Ser-92, Ser-99 to Ser-104.	L0774: 3, S0380: 3, S0028: 3, L0758: 3, H0486: 2, S0003: 2, H0040: 2, S0344: 2, L0766: 2, L0775: 2, H0547: 2, L0748: 2, L0756: 2, L0777: 2, L0780: 2, L0753: 2, S0011: 2, H0716: 1, H0638: 1, L0617: 1, S0358: 1, H0411: 1, S0280: 1, H0318: 1, H0355: 1, H0674: 1, H0212: 1, H0135: 1, H0038: 1, H0132: 1, S0142: 1, S0002: 1, H0529: 1, L0804: 1, L0632: 1, L0666: 1, H0682: 1, H0684: 1, H0525: 1, S0044: 1, S0406: 1, H0555: 1, L0747: 1, L0750: 1, L0752: 1, L0755: 1, L0604: 1 and S0026: 1.			
317	HTTBS64	1008159	327	95 - 223	843	Leu-37 to Asn-42.	H0040: 1			
	HTTBS64	863187	512	100 - 228	1028	Leu-37 to Asn-42.				
	HTTBS64	754125	513	175 - 402	1029	Lys-41 to Arg-46.				
318	HTWDF76	714344	328	316 - 570	844		H0436: 1			
319	HTXCV12	1352213	329	175 - 480	845	Gln-29 to Gly-38, Lys-57 to Asp-62.	L0766: 16, L0743: 11, H0692: 8, L0769: 7,			

									L0756: 1, L0758: 1, S0436: 1, L0601: 1, H0543: 1, H0423: 1, S0424: 1 and H0506: 1.		
	HTXCV12	567006	514	183 - 458	1030			Gln-29 to Gly-38, Lys-57 to Asp-62.			
320	HTXFL30	620001	330	30 - 338	846			Met-1 to Gly-6, Arg-11 to Gly-21.	H0038: 2, H0265: 1, H0556: 1, S0134: 1, S0222: 1, L0455: 1, L0792: 1, S0152: 1, S0028: 1 and L0591: 1.		
321	HTXJM03	603918	331	328 - 498	847			Asp-51 to His-56.	L0766: 5, H0313: 3, H0624: 1, H0265: 1, H0556: 1, S0116: 1, H0329: 1, H0486: 1, H0156: 1, H0590: 1, H0009: 1, S0250: 1, H0169: 1, S0450: 1, S0002: 1, L0769: 1, L0793: 1, L0532: 1, L0750: 1, L0777: 1 and S0424: 1.		
322	HTXON32	838288	332	72 - 230	848			Ala-45 to Gly-50.	H0556: 1		
323	HUFBY15	1352349	333	49 - 525	849			Ser-44 to Leu-51, Arg-81 to Cys-94, Thr-132 to Tyr-140, Arg-143 to Ile-154.	L0794: 5, H0036: 3, S0360: 2, S0442: 1, S0476: 1, H0014: 1, S0314: 1, L0772: 1, L0646: 1, L0764: 1, L0803: 1 and H0689: 1.		
	HUFBY15	846380	515	74 - 508	1031			Ser-44 to Leu-51,			

					H0392: 1, H0409: 1, H0642: 1, H0574: 1, H0559: 1, T0039: 1, L3655: 1, T0109: 1, H0069: 1, H0635: 1, H0253: 1, S0010: 1, S0346: 1, L0040: 1, H0123: 1, L0471: 1, H0047: 1, H0197: 1, T0003: 1, H0015: 1, S0051: 1, H0267: 1, H0179: 1, H0687: 1, H0290: 1, S0250: 1, H0039: 1, T0006: 1, H0674: 1, L0456: 1, H0068: 1, H0376: 1, H0063: 1, T0067: 1, H0264: 1, H0413: 1, L0564: 1, S0438: 1, S0144: 1, H0529: 1, L0769: 1, L0646: 1, L0800: 1, L0767: 1, L0768: 1, L0794: 1, L0650: 1, L0806: 1, L0606: 1, L0661: 1, L0540: 1, L0542: 1, L0382: 1, L0809: 1, L5622: 1, L0788: 1, L0664: 1, H0703: 1, S0374: 1, L3811: 1,	
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	HUSXS50	883176	518	281 - 1666	1034	Gly-39 to Thr-44, Asn-51 to Thr-62, Pro-88 to Pro-104, Ser-109 to Ser-114.						
	HUSXS50	655372	519	179 - 703	1035	Gln-54 to Gly-61, Asn-79 to Leu-91, Glu-99 to Thr-105, Pro-120 to Gln-126, Pro-128 to Phe-134, Arg-150 to Arg-156, Arg-160 to Arg-170.						
327	HUVEB53	571200	337	14 - 151	853				H0171: 3, L0754: 3, H0431: 2, H0196: 2, H0546: 2, H0623: 2, H0539: 2, H0696: 2, L0744: 2, L0748: 2, L0749: 2, L0758: 2,			

									L0759: 2, S0398: 2, H0624: 1, T0002: 1, S0040: 1, H0341: 1, S0360: 1, H0580: 1, H0587: 1, H0574: 1, H0486: 1, H0036: 1, S0665: 1, H0123: 1, H0014: 1, S6028: 1, S0214: 1, H0553: 1, H0032: 1, L0455: 1, H0598: 1, H0038: 1, H0616: 1, H0056: 1, S0386: 1, S0112: 1, T0042: 1, S0344: 1, S0422: 1, S0002: 1, L0775: 1, L0806: 1, L0805: 1, L0776: 1, S0152: 1, H0704: 1, H0555: 1, H0436: 1, L0439: 1, L0751: 1, L0752: 1, L0731: 1, L0588: 1, L0592: 1, S0026: 1, H0543: 1 and H0423: 1.					
328	HWAAD63	838626	338	322 - 825	854	Pro-53 to Trp-61.	H0441: 1, H0581: 1 and H0604: 1.							
	HWAAD63	833089	520	322 - 483	1036									
	HWAAD63	793875	521	312 - 818	1037									
329	HWABY10	768334	339	263 - 766	855	Pro-67 to Ser-73.	H0521: 8, L0756: 6, L0455: 5, L0770: 5,							

331	HWBCB89	1093347	341	37 - 600	857	Gln-20 to Phe-25, Gly-58 to Ala-66, Gln-69 to Leu-74, Asn-87 to Ile-100, Thr-135 to Trp-142.	L0777: 6, L0766: 4, H0090: 3, L0759: 3, H0657: 2, S0360: 2, H0318: 2, L0471: 2, H0031: 2, L0659: 2, L0740: 2, L0747: 2, L0750: 2, L0758: 2, H0170: 1, H0556: 1, H0656: 1, H0341: 1, S0418: 1, H0637: 1, H0580: 1, H0411: 1, H0549: 1, H0333: 1, H0013: 1, H0599: 1, H0581: 1, H0545: 1, H0012: 1, S0003: 1, H0135: 1, H0551: 1, H0488: 1, H0059: 1, H0647: 1, L0520: 1, L0763: 1, L0769: 1, L4556: 1, L0806: 1, L0805: 1, L0647: 1, L0789: 1, L0663: 1, H0144: 1, S3012: 1, L0748: 1, L0749: 1, L0731: 1, L0757: 1, H0653: 1, H0543: 1, H0423: 1 and H0352: 1.		
	HWBCB89	886210	522	35 - 598	1038	Gln-20 to Phe-25, Gly-58 to Ala-66, Gln-69 to Leu-74,			

335	HWLIH65	793713	345	129 - 626	861			L3603: 1. L0774: 3, H0521: 3, L0777: 3, S0356: 2, S0408: 2, H0124: 2, H0494: 2, L0766: 2, L0666: 2, L0751: 2, L0596: 2, S0040: 1, H0294: 1, S0430: 1, H0656: 1, S0358: 1, S0360: 1, H0729: 1, H0645: 1, H0586: 1, H0587: 1, H0632: 1, H0590: 1, L0045: 1, S0003: 1, H0316: 1, H0598: 1, S0036: 1, H0591: 1, L0564: 1, H0560: 1, H0509: 1, H0641: 1, S0002: 1, L0640: 1, L0662: 1, L0775: 1, L0655: 1, L0659: 1, L0783: 1, L5622: 1, L0663: 1, L2653: 1, H0701: 1, H0689: 1, H0672: 1, H0539: 1, S0406: 1, L0439: 1, L0749: 1, L0786: 1, S0434: 1, S0436: 1, H0543: 1, S0424: 1 and S0446: 1.			
336	HTEAM34	898364	346	136 - 504	862	Leu-26 to Glu-52,		L0758: 5, L0794: 4,			

							Gln-71 to Lys-79.	H0618: 2, H0038: 2 and H0616: 1.		
	HTEAM34	570049	524	63 - 431	1040		Leu-26 to Glu-52, Gln-71 to Lys-79.			
337	HTEJN13	1352272	347	156 - 779	863		Tyr-37 to Cys-49, Gly-51 to Tyr-56, Lys-88 to Trp-93, Phe-125 to Lys-140, Lys-147 to Thr-153, Thr-175 to Asn-188, Ala-203 to Met-208.	L0758: 4, L0770: 2, L0754: 2, L0779: 2, L3643: 1, H0327: 1, H0038: 1, L0769: 1, L0764: 1, L0794: 1, H0658: 1, L0748: 1, L0777: 1, L0780: 1, L0731: 1 and L0465: 1.		
	HTEJN13	658744	525	163 - 639	1041		Tyr-37 to Cys-49, Gly-51 to Tyr-56, Lys-88 to Trp-93, Leu-130 to Glu-136.			
	HTEJN13	381941	526	155 - 367	1042					

Table 1B.2

Gene No:	cDNA Clone ID	Contig ID:	SEQ ID NO:	Tissue Distribution Library Code:Count (see Table 4 for Library Codes)
1	H2CBU83	884134	X 11	AR182:8, AR314:7, AR271:7, AR280:6, AR315:6, AR216:6, AR052:6, AR224:6, AR225:5, AR164:5, AR215:5, AR270:5, AR165:5, AR162:5, AR310:5, AR245:5, AR166:5, AR161:5, AR169:5, AR223:5, AR266:5, AR172:5, AR039:5, AR192:5, AR163:4, AR193:4, AR207:4, AR176:4, AR269:4, AR175:4, AR226:4, AR243:4, AR217:4, AR273:4, AR168:4, AR282:4, AR204:4, AR291:4, AR265:4, AR183:4, AR274:4, AR299:4, AR214:4, AR205:4, AR206:4, AR194:4, AR060:4, AR272:4, AR238:4, AR186:4, AR222:4, AR053:4, AR197:4, AR089:3, AR257:3, AR295:3, AR289:3, AR311:3, AR221:3, AR171:3, AR191:3, AR250:3, AR235:3, AR252:3, AR275:3, AR309:3, AR177:3, AR180:3, AR173:3, AR178:3, AR246:3, AR312:3, AR188:3, AR292:3, AR298:3, AR284:3, AR212:3, AR201:3, AR285:3, AR189:3, AR296:3, AR181:3, AR300:3, AR185:3, AR253:3, AR202:3, AR281:3, AR237:3, AR184:3, AR268:3, AR233:3, AR286:3, AR232:3, AR308:3, AR277:3, AR267:3, AR228:3, AR288:3, AR316:3, AR239:3, AR195:2, AR242:2, AR263:2, AR033:2, AR287:2, AR196:2, AR210:2, AR259:2, AR174:2, AR294:2, AR096:2, AR234:2, AR293:2, AR290:2, AR190:2, AR255:2, AR055:2, AR213:2, AR264:2, AR231:2, AR313:2, AR297:2, AR258:2, AR170:2, AR218:2, AR247:2, AR061:2, AR236:2, AR219:2, AR198:2, AR230:2, AR254:2, AR256:2, AR261:2, AR104:2, AR240:2, AR262:2, AR283:2, AR229:2, AR227:2, AR260:2, AR200:1, AR203:1, AR179:1, AR244:1, AR199:1, S0414:9, S0422:7, L0662:7, S0444:6, L0748:4, L0581:4, S0442:3, H0031:3, L0666:3, L0754:3, H0656:2, S0358:2, S0360:2, H0013:2, S0438:2, S0440:2, L0598:2, L0803:2, L0540:2, L0756:2, L0752:2, L0758:2, L0759:2, S0242:2, H0624:1, S0282:1, H0742:1, H0393:1, H0586:1, H0574:1, H0036:1, H0004:1, T0103:1, T0110:1, H0571:1, H0569:1, H0123:1, L0471:1, H0594:1, S0628:1, H0622:1, UNKNWN:1, L0649:1, L0381:1, L0776:1, L0659:1, L0528:1, L0792:1, L0793:1, L0663:1, L0664:1, L0665:1, L2257:1, H0144:1, S0374:1, H0547:1, H0593:1, H0690:1, H0670:1, H0648:1, H0672:1, H0651:1, H0539:1, S0378:1, S0380:1, H0521:1, S0406:1, H0555:1, H0478:1, L0744:1, L0731:1 and S0276:1.
	H2CBU83	745366	347	
2	H2MAC30	544957	12	AR096:11, AR039:10, AR313:10, AR299:10, AR250:9, AR240:8, AR254:8, AR055:8, AR242:8, AR060:7, AR089:7, AR162:7, AR316:6, AR161:6, AR163:6, AR213:6, AR269:6, AR252:5, AR268:5, AR169:5, AR200:5, AR204:5, AR215:5, AR165:5, AR053:5, AR196:5, AR166:5, AR164:5, AR199:5, AR104:5, AR282:5, AR176:5, AR266:5, AR180:4, AR264:4, AR261:4, AR277:4, AR300:4, AR229:4, AR183:4, AR181:4, AR190:4, AR173:4, AR263:4, AR247:4, AR309:4, AR197:4, AR274:4, AR178:4, AR214:4, AR205:4, AR212:4, AR243:4, AR312:4, AR191:4, AR253:4, AR182:4, AR236:4, AR170:4, AR245:3, AR185:3, AR272:3, AR217:3, AR171:3, AR267:3, AR175:3, AR308:3, AR192:3, AR290:3, AR271:3, AR193:3, AR291:3, AR219:3, AR237:3, AR233:3, AR188:3, AR201:3, AR216:3, AR311:3, AR270:3, AR177:3, AR174:3, AR218:3, AR234:3, AR283:3, AR179:3, AR293:3, AR207:3, AR231:3, AR221:3, AR228:3, AR203:3, AR285:3, AR262:3, AR255:2, AR224:2, AR288:2, AR238:2, AR195:2, AR287:2, AR257:2, AR239:2, AR168:2, AR286:2, AR189:2, AR296:2, AR230:2,

3	H6EDC19	543259	13	<p>AR223:2, AR275:2, AR289:2, AR297:1, AR222:1, AR232:1, AR033:1, AR260:1, AR061:1, AR227:1, AR295:1, AR235:1, AR294:1, AR225:1, AR258:1, AR172:1, AR226:1, AR210:1, AR211:1 L0766:16, L0743:11, H0692:8, L0769:7, L0518:6, L0748:6, L0771:4, L0745:4, L0779:4, H0265:3, S0358:3, H0494:3, L0755:3, L3814:2, H0550:2, H0486:2, H0581:2, H0135:2, L0761:2, L0804:2, L0774:2, L0438:2, L0777:2, H0685:1, S0114:1, H0583:1, S0116:1, S0212:1, H0254:1, S0408:1, S0476:1, H0772:1, T0104:1, H0586:1, H0587:1, H0331:1, T0109:1, H0599:1, L0738:1, H0150:1, H0012:1, H0264:1, S0438:1, L0770:1, L0374:1, L0764:1, L0768:1, L0803:1, L0653:1, L0776:1, L0788:1, L0792:1, L0663:1, S0428:1, S0053:1, S0216:1, H0783:1, L3811:1, S0152:1, H0522:1, H0555:1, S0432:1, L0744:1, L0751:1, L0749:1, L0756:1, L0758:1, S0436:1, L0601:1, H0543:1, H0423:1, S0424:1 and H0506:1.</p> <p>AR235:21, AR197:20, AR222:17, AR261:13, AR309:11, AR195:11, AR176:9, AR201:9, AR264:9, AR295:9, AR162:9, AR271:9, AR242:9, AR161:9, AR163:9, AR177:9, AR165:9, AR089:9, AR236:8, AR164:8, AR283:8, AR252:8, AR196:8, AR166:8, AR296:8, AR229:8, AR198:8, AR263:7, AR297:7, AR181:7, AR269:7, AR287:7, AR289:7, AR288:7, AR245:7, AR285:7, AR253:7, AR060:7, AR204:7, AR183:7, AR266:7, AR268:6, AR240:6, AR180:6, AR312:6, AR246:6, AR192:6, AR199:6, AR055:6, AR316:6, AR247:6, AR272:6, AR178:6, AR193:6, AR233:6, AR299:6, AR212:6, AR228:6, AR275:5, AR293:5, AR096:5, AR313:5, AR291:5, AR179:5, AR238:5, AR239:5, AR053:5, AR182:5, AR286:5, AR237:5, AR231:5, AR308:5, AR274:5, AR250:5, AR185:5, AR226:5, AR205:5, AR270:5, AR104:5, AR255:5, AR257:5, AR218:5, AR175:5, AR190:4, AR061:4, AR219:4, AR191:4, AR262:4, AR203:4, AR234:4, AR254:4, AR300:4, AR189:4, AR267:4, AR243:4, AR039:4, AR230:4, AR033:4, AR188:4, AR311:4, AR232:4, AR221:3, AR258:3, AR256:3, AR170:3, AR282:3, AR171:3, AR200:3, AR225:3, AR227:3, AR277:3, AR173:3, AR294:3, AR211:3, AR224:2, AR216:2, AR102:2, AR172:2, AR215:1, AR169:1 L0805:4, H0559:3, L0803:3, AR223:3, AR290:3, AR260:2, AR224:2, AR216:2, AR210:2, AR172:2, AR257:1, S0444:1, H0734:1, H0550:1, S0222:1, H0545:2, L0664:2, L0748:2, L0777:2, L0758:2, L3643:1, H0295:1, H0657:1, S0444:1, H0734:1, H0550:1, S0222:1, T0048:1, H0318:1, H0052:1, H0231:1, H0041:1, H0620:1, H0606:1, H0316:1, H0077:1, L0769:1, L0761:1, L0766:1, L0774:1, L0789:1, H0672:1, H0539:1, S0146:1, L0751:1, L0780:1, L0731:1, S0434:1 and S0196:1.</p>
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18	HAMGR28	748223	351	
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19	HAPPW30	1352278	29	AR174:24, AR235:23, AR196:23, AR177:22, AR191:19, AR175:19, AR233:19, AR288:19, AR179:18, AR190:17, AR203:17, AR257:17, AR178:17, AR182:17, AR188:17, AR060:17, AR176:17, AR181:16, AR295:16, AR261:16, AR236:16, AR185:15, AR287:15, AR255:15, AR161:15, AR162:15, AR163:15, AR199:14, AR286:14, AR033:14, AR165:14, AR260:14, AR285:14, AR294:14, AR231:14, AR164:14, AR258:14, AR104:14, AR061:13, AR267:13, AR293:13, AR238:13, AR166:13, AR226:13, AR189:13, AR232:13, AR269:13, AR291:13, AR262:12, AR173:12, AR200:12, AR240:12, AR247:12, AR299:12, AR230:12, AR282:11, AR270:11, AR227:11, AR296:11, AR234:11, AR055:11, AR300:11, AR228:11, AR089:11, AR316:11, AR275:10, AR297:10, AR289:10, AR239:9, AR274:9,

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21	HATCB92	603948	31	AR242:8, AR245:5, AR170:5, AR161:5, AR162:5, AR163:5, AR309:5, AR204:4, AR205:4, AR053:4, AR275:4, AR165:4, AR164:4, AR177:4, AR193:4, AR271:4, AR166:3, AR282:3, AR270:3, AR243:3, AR235:3, AR168:3, AR197:3, AR089:3, AR311:3, AR192:3, AR207:3, AR300:3, AR183:3, AR171:3, AR252:3, AR274:3, AR228:3, AR174:2, AR201:2, AR198:2, AR312:2, AR239:2, AR061:2, AR264:2, AR185:2, AR299:2, AR229:2, AR096:2, AR297:2, AR308:2, AR039:2, AR182:2, AR277:2, AR293:2, AR231:2, AR178:2, AR313:2, AR195:2, AR230:2, AR266:2, AR316:2, AR060:2, AR240:2, AR176:2, AR272:2, AR172:2, AR289:2, AR267:1, AR283:1, AR231:1, AR247:1, AR181:1, AR257:1, AR261:1, AR238:1, AR234:1, AR269:1, AR290:1, AR226:1, AR199:1, AR262:1, AR217:1, AR287:1, AR294:1, AR268:1, AR210:1, H0156:1
22	HATEE46	565618	32	AR296:15, AR266:6, AR176:6, AR291:6, AR289:6, AR255:5, AR257:5, AR183:5, AR182:5, AR269:5, AR252:4, AR253:4, AR290:4, AR294:4, AR309:4, AR297:4, AR178:3, AR060:3, AR055:3, AR221:3, AR175:3, AR288:3, AR270:3, AR181:3,

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23	HAUA183	639009	33	H0294:2
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24	HBAMB15	671835	34	<p>AR245:4, AR213:3, AR176:3, AR224:3, AR252:3, AR168:3, AR165:2, AR164:2, AR183:2, AR197:2, AR204:2, AR238:2, AR266:2, AR282:2, AR162:2, AR171:2, AR271:2, AR289:2, AR270:2, AR291:2, AR205:2, AR274:2, AR096:2, AR268:2, AR297:2, AR296:2, AR225:2, AR161:1, AR311:1, AR192:1, AR269:1, AR261:1, AR179:1, AR182:1, AR234:1, AR191:1, AR277:1, AR181:1, AR237:1, AR313:1, AR300:1, AR089:1 H0410:1, H0530:1, H0328:1, L0455:1 and L0740:1.</p>
25	HGBA69	1352289	35	<p>AR196:22, AR089:21, AR275:21, AR188:20, AR240:19, AR096:19, AR177:18, AR060:18, AR104:18, AR282:18, AR269:17, AR238:17, AR195:17, AR176:17, AR189:16, AR199:15, AR283:15, AR185:15, AR183:15, AR244:15, AR218:15, AR219:15, AR186:14, AR299:14, AR248:14, AR247:14, AR211:14, AR197:14, AR173:14, AR254:14, AR174:14, AR268:14, AR310:13, AR290:13, AR203:13, AR052:13, AR289:13, AR033:13, AR191:13, AR316:13, AR165:13, AR300:13, AR055:13, AR164:12, AR266:12, AR243:12, AR249:12, AR271:12, AR190:12, AR166:12, AR273:12, AR270:12, AR241:12, AR178:12, AR253:12, AR061:12, AR175:12, AR232:12, AR246:11, AR181:11, AR267:11, AR313:11, AR261:11, AR274:11, AR239:11, AR198:11, AR182:11, AR250:11, AR309:10, AR280:10, AR200:10, AR234:10, AR229:10, AR180:10, AR291:10, AR184:10, AR255:10, AR272:10, AR235:10, AR245:10, AR192:9, AR161:9, AR296:9, AR039:9, AR221:9, AR231:9, AR163:9, AR251:9, AR201:9, AR257:9, AR236:9, AR204:9, AR162:9, AR233:9, AR216:8, AR210:8, AR215:8, AR295:8, AR315:8, AR314:8, AR265:8, AR284:8, AR228:8, AR312:8, AR277:8, AR286:8, AR213:8, AR194:8, AR288:8, AR226:8, AR298:8, AR242:8, AR256:7, AR227:7, AR193:7, AR217:7, AR262:7, AR053:7, AR264:7, AR179:7, AR224:7, AR237:6, AR202:6, AR293:6, AR230:6, AR214:6, AR297:6, AR287:6, AR205:6, AR292:6, AR285:6, AR258:6, AR263:6, AR294:6, AR225:6, AR281:6, AR212:5, AR170:5, AR206:5, AR308:5, AR172:5, AR222:5, AR259:5, AR169:4, AR260:4, AR171:4, AR252:4, AR207:3, AR311:3, AR168:2, AR223:2 S0474:13, L0747:7, S0410:6, H0617:5, L0777:5, H0618:4, H0521:4, H0661:3, H0663:3, S0360:3, H0052:3, H0545:3, H0038:3, L0766:3, S0380:3, L0740:3, L0751:3, L0757:3, H0653:2, S0358:2, H0733:2, L0717:2, S0278:2, H0318:2, H0309:2, H0327:2, H0150:2, H0687:2, H0181:2, H0413:2, H0509:2, L0769:2, L0764:2, L0771:2, L0662:2, L0768:2, L0774:2, L0776:2, L5622:2, L0666:2, L0663:2, L2261:2, S0126:2, S0126:2, L0658:2, S0406:2, L0744:2, L0758:2, L0588:2, L3643:1, S0342:1, H0713:1, H0740:1, T0049:1, H0657:1, S0116:1, S0282:1, H0255:1, H0402:1, H0638:1, S0418:1, S0420:1, S0442:1, S0444:1, S0408:1, H0730:1, H0741:1, H0735:1, H0776:1, S0300:1, L3388:1, H0370:1, H0592:1, H0643:1, L0623:1,</p>

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26	HBIAE26	514418	36		AR161:11, AR162:11, AR163:11, AR313:9, AR242:8, AR165:8, AR039:7, AR164:7, AR166:7, AR207:6, AR201:6, AR204:6, AR089:6, AR096:6, AR197:6, AR309:6, AR053:5, AR193:5, AR264:5, AR299:5, AR060:5, AR182:5, AR173:5, AR185:5, AR198:5, AR236:5, AR300:5, AR181:5, AR228:5, AR271:5, AR176:5, AR277:5, AR055:5, AR262:5, AR196:5, AR247:5, AR250:4, AR258:4, AR312:4, AR257:4, AR175:4, AR229:4, AR178:4, AR179:4, AR316:4, AR293:4, AR269:4, AR274:4, AR240:4, AR261:4, AR246:4, AR104:4, AR266:4, AR177:4, AR191:4, AR233:4, AR275:4, AR192:4, AR268:4, AR183:4, AR213:4, AR205:4, AR231:4, AR297:4, AR288:4, AR174:3, AR212:3, AR294:3, AR270:3, AR267:3, AR238:3, AR180:3, AR215:3, AR255:3, AR245:3, AR199:3, AR287:3, AR226:3, AR296:3, AR234:3, AR203:3, AR218:3, AR285:3, AR282:3, AR311:3, AR195:3, AR200:3, AR239:3, AR283:3, AR263:3, AR217:3, AR222:3, AR272:3, AR291:3, AR237:3, AR033:3, AR290:3, AR188:3, AR243:3, AR253:3, AR189:3, AR225:3, AR295:3, AR230:3, AR170:3, AR061:2, AR219:2, AR286:2, AR308:2, AR227:2, AR256:2, AR232:2, AR216:2, AR190:2, AR171:2, AR289:2, AR211:2, AR223:2, AR235:1, AR214:1 S0049:1 and S0146:1.
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	HBJNC59	902207	359	
29	HBNW17	526797	39	AR266:6, AR245:3, AR168:2, AR246:2, AR217:2, AR177:2, AR291:2, AR264:2, AR274:1, AR165:1, AR267:1, AR312:1, AR216:1, AR311:1, AR164:1, AR261:1, AR182:1, AR299:1, AR257:1, AR166:1, AR243:1, AR309:1, AR089:1, AR224:1, AR175:1 L0766:3 and H0188:1.
30	HBOEG69	793786	40	AR282:73, AR253:4, AR221:3, AR235:3, AR216:3, AR171:2, AR180:2, AR277:2, AR316:2, AR213:2, AR205:2, AR272:2, AR271:2, AR168:2, AR289:1, AR283:1, AR240:1, AR181:1, AR309:1, AR257:1, AR055:1, AR176:1, AR173:1, AR295:1, AR195:1, AR183:1, AR224:1 L0771:4, H0556:3, S0007:3, L0766:3, L0493:3, H0748:3, H0265:2, S0418:2, H0271:2, H0422:2, S0402:1, H0657:1, H0656:1, H0580:1, L0463:1, H0592:1, H0427:1, H0156:1, H0390:1, H0581:1, H0194:1, H0596:1, H0373:1, H0687:1, H0615:1, S0364:1, H0413:1, H0649:1, S0422:1, L0457:1, L0502:1, L0763:1, L0776:1, S0428:1, H0658:1, H0670:1, S0330:1, L0602:1, H0696:1, H0436:1, L0754:1, L0750:1, L0780:1 and S0424:1.
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47	HCUIM65	550208	57	AR223:4, AR215:3, AR268:3, AR270:3, AR250:3, AR161:3, AR246:3, AR162:3, AR166:2, AR171:2, AR254:2, AR217:2, AR213:2, AR177:2, AR089:2, AR243:2, AR290:2, AR257:2, AR269:2, AR288:1, AR313:1, AR179:1, AR205:1, AR309:1, AR165:1, AR163:1, AR170:1, AR261:1, AR225:1, AR195:1, AR240:1, AR181:1, AR238:1, AR193:1, AR299:1 L0789:4, L0809:2, L0759:2, L0596:2, H0306:1, H0402:1, H0580:1, H0550:1, H0370:1, H0404:1, H0559:1, H0486:1, H0031:1, H0674:1, H0135:1, H0100:1, L0800:1, L0794:1, L0804:1, L0805:1, L0515:1, L0783:1, H0672:1, L0777:1, H0444:1 and H0352:1.
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54	HDPBA28	1062783	64	AR249:72, AR213:48, AR253:40, AR096:37, AR052:37, AR263:33, AR053:32, AR212:31, AR265:27, AR184:26, AR254:26, AR264:22, AR248:18, AR251:17, AR240:17, AR313:16, AR268:14, AR272:13, AR290:13, AR311:13, AR310:13, AR177:13, AR180:13, AR246:13, AR245:10, AR250:10, AR309:10, AR275:10, AR183:9, AR247:9, AR274:9, AR312:9, AR039:9, AR308:9, AR269:9, AR271:8, AR179:8, AR270:8, AR267:8, AR316:7, AR198:7, AR252:7, AR244:7, AR243:7, AR175:6, AR193:6, AR195:6, AR165:6, AR299:6, AR192:6, AR166:6, AR201:6, AR164:6, AR162:6, AR161:6, AR242:6, AR163:6, AR273:6, AR300:5, AR197:5, AR284:5, AR282:5, AR055:5, AR181:4, AR169:4, AR174:4, AR185:4, AR061:4, AR089:4, AR298:4, AR259:4, AR234:4, AR293:3, AR182:3, AR202:3, AR205:3, AR231:3, AR215:3, AR283:3, AR236:3, AR225:3, AR173:2, AR178:2, AR294:2, AR186:2, AR296:2, AR222:2, AR285:2, AR281:2, AR104:2, AR292:2, AR176:2, AR295:2, AR207:2, AR217:2, AR229:2, AR289:2, AR226:2, AR291:2, AR206:2, AR172:2, AR288:2, AR033:2, AR235:2, AR238:2, AR191:2, AR170:2, AR194:2, AR232:2, AR230:2, AR286:2, AR189:1, AR257:1, AR190:1, AR199:1, AR277:1, AR287:1, AR200:1, AR224:1, AR171:1, AR297:1, AR223:1, AR168:1, AR228:1, AR266:1, AR258:1, AR233:1, AR204:1, AR262:1, AR315:1, AR255:1, AR237:1, AR280:1, H0521:4, L0454:2, S0442:2, L0758:2, H0720:1, H0255:1, S0376:1, H0486:1, H0581:1, H0373:1, H0268:1, S0440:1, L0763:1, L0803:1, H0435:1, H0658:1, L3833:1, H0522:1, L0748:1, L0749:1, L0588:1 and H0543:1.
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58	HDPFF39	588697	68	AR194:31, AR202:28, AR198:25, AR205:24, AR206:24, AR281:24, AR246:22, AR244:21, AR263:21, AR315:20, AR241:19, AR192:19, AR243:19, AR282:18, AR033:17, AR280:17, AR265:17, AR275:16, AR283:16, AR273:15, AR204:15, AR285:14, AR291:14, AR277:14, AR296:14, AR247:14, AR039:14, AR314:13, AR284:13, AR240:13, AR289:13, AR266:13, AR310:13, AR295:13, AR298:12, AR104:12, AR183:12, AR316:12, AR274:12, AR089:12, AR060:12, AR055:11, AR186:11, AR182:11, AR292:11, AR232:11, AR286:11, AR300:11, AR053:10, AR218:10, AR268:10, AR294:10, AR052:10, AR312:10, AR309:10, AR096:10, AR238:10, AR251:9, AR271:9, AR185:9, AR299:9, AR269:9, AR184:9, AR229:9, AR177:9, AR175:9, AR219:9, AR231:9, AR313:8, AR227:8, AR213:8, AR061:8, AR234:8, AR226:8, AR290:7, AR267:7, AR293:7, AR249:7, AR248:6, AR233:6, AR256:6, AR253:5, AR259:5, AR237:5, AR238:5, AR179:4, H0556:1, H0255:1, H0391:1, S0049:1, H0553:1, L0455:1, H0264:1, H0561:1, H0539:1, H0521:1, H0522:1, L0748:1 and S0424:1.
59	HDPFP29	628254	69	AR311:15, AR263:15, AR223:14, AR224:14, AR264:14, AR214:14, AR195:13, AR215:12, AR222:12, AR168:12, AR309:12, AR225:12, AR169:12, AR161:11, AR162:11, AR235:11, AR163:11, AR171:11, AR253:11, AR217:11, AR089:10, AR213:10, AR212:10, AR252:10, AR207:10, AR165:10, AR240:10, AR172:10, AR216:10, AR192:9, AR053:9, AR221:9, AR166:9, AR164:9, AR170:9, AR245:9, AR308:9, AR196:8, AR282:8, AR312:8, AR039:8, AR246:8, AR254:8, AR295:8, AR198:8, AR288:8, AR096:7, AR316:7, AR193:7, AR277:7, AR181:7, AR177:7, AR261:7, AR250:7, AR299:7, AR060:7, AR189:7, AR205:7, AR174:6, AR274:6, AR191:6, AR229:6, AR271:6, AR201:6, AR243:6, AR188:6, AR210:6, AR268:6, AR247:6, AR285:6, AR269:6, AR197:6, AR173:6, AR313:6, AR199:6, AR272:6, AR183:5, AR175:5, AR289:5, AR300:5, AR297:5, AR275:5, AR200:5, AR185:5, AR218:5, AR180:5, AR190:5, AR178:5, AR238:5, AR055:5, AR262:5, AR211:5, AR291:5, AR290:5, AR033:5, AR270:5, AR203:5, AR176:5, AR296:5, AR104:5, AR293:5, AR219:5, AR287:5, AR286:5, AR255:5, AR236:5, AR204:5, AR234:4, AR294:4, AR257:4, AR266:4, AR179:4, AR283:4, AR239:4, AR231:4, AR242:4, AR182:4, AR232:4, AR258:4, AR061:3, AR226:3, AR230:3, AR267:3, AR227:3, AR237:3, AR256:3, AR228:3, AR260:2, S0474:6, L0766:6, L0662:4, L0748:4, H0556:3, L0387:3, L0659:3, L0779:3, H0255:2, H0402:2, S0360:2, S0408:2, S0410:2, H0309:2, H0591:2, H0087:2, L0764:2, L0809:2, L0666:2, L0663:2, H0648:2, L0751:2, L0754:2, L0747:2, H0295:1, S0116:1, H0306:1, S0376:1, H0747:1, H0749:1, H0771:1, H0455:1, L0623:1, H0581:1, H0052:1, H0569:1, H0123:1, H0428:1, H0039:1, H0622:1, T0006:1, H0628:1, H0673:1, L0369:1, L0770:1, L0769:1, L0638:1, L0761:1, L0667:1, L0772:1, L0643:1, L0771:1, L0794:1, L0803:1, L0804:1, L0774:1, L0806:1, L0805:1, L0655:1, L0657:1, L0658:1, L0783:1, L0519:1, L0789:1, L0352:1, S0378:1, H0521:1, H0478:1, L0744:1, L0439:1, L0777:1, L0753:1 and S0434:1.
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62	HDPHI51	460679	72	AR268:5, AR244:4, AR282:3, AR251:3, AR242:3, AR241:3, AR052:3, AR184:2, AR271:2, AR310:2, AR176:2, AR194:2, AR039:2, AR309:2, AR283:1, AR178:1, AR289:1, AR217:1, AR257:1, AR277:1, AR170:1, AR284:1, AR221:1, AR226:1, AR265:1, H0521:3, S0278:2, S0222:2, H0284:2, H0265:1, H0728:1, S0007:1, H0208:1, H0586:1, H0497:1, H0642:1, H0581:1, H0052:1, H0572:1, H0024:1, H0292:1, H0428:1, H0628:1, H0135:1, H0163:1, H0433:1, S0002:1, L2263:1, L0438:1, L3829:1, H0539:1, S0027:1, S0032:1, L0439:1, S0436:1, S0458:1 and H0352:1.
63	HDPJM30	879325	73	AR195:9, AR192:9, AR207:9, AR215:8, AR264:8, AR225:7, AR263:7, AR311:7, AR168:7, AR309:7, AR252:6, AR172:6, AR245:6, AR161:6, AR162:6, AR163:6, AR196:6, AR223:6, AR193:6, AR177:6, AR246:6, AR224:6, AR197:5, AR308:5, AR272:5, AR214:5, AR275:5, AR222:5, AR253:5, AR176:5, AR261:5, AR295:5, AR291:5, AR171:5, AR218:5, AR221:5, AR219:5, AR188:5, AR165:5, AR096:5, AR217:5, AR238:5, AR288:5, AR164:5, AR175:5, AR166:5, AR089:5, AR271:5, AR060:4, AR240:4, AR183:4, AR201:4, AR257:4, AR169:4, AR312:4, AR316:4, AR039:4, AR274:4, AR190:4, AR191:4, AR181:4, AR178:4, AR236:4, AR216:4, AR180:4, AR205:4, AR210:4, AR270:4, AR170:4, AR277:4, AR243:4, AR235:4, AR212:4, AR104:4, AR199:4, AR189:4, AR242:4, AR213:4, AR255:4, AR289:4, AR174:3, AR285:3, AR230:3, AR286:3, AR297:3, AR299:3, AR283:3, AR313:3, AR204:3, AR287:3, AR173:3, AR247:3, AR229:3, AR269:3, AR296:3, AR182:3, AR293:3, AR266:3, AR258:3, AR198:3, AR237:3, AR262:3, AR033:3, AR239:3, AR185:3, AR231:3, AR203:3, AR200:3, AR179:3, AR211:3, AR227:3, AR268:3, AR267:3, AR294:3, AR290:3, AR234:3, AR232:3, AR226:3, AR300:2, AR250:2, AR282:2, AR256:2, AR061:2, AR053:2, AR233:2, AR260:2, AR228:2, AR055:2, H0521:1.
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64	HDPJM30	603517	373	AR202:35, AR096:34, AR194:33, AR206:31, AR244:25, AR241:22, AR268:21, AR281:20, AR290:19, AR265:17, AR315:15, AR184:15, AR246:15, AR310:14, AR192:13, AR269:12, AR270:12, AR282:12, AR243:11, AR314:11, AR280:11, AR267:10, AR292:10, AR183:9, AR263:9, AR299:9, AR284:9, AR198:9, AR055:8, AR205:8, AR251:8, AR273:8, AR266:8, AR313:8, AR298:8, AR039:8, AR033:8, AR204:7, AR052:7, AR277:7, AR177:7, AR238:7, AR234:7, AR061:6, AR247:6, AR295:6, AR104:6, AR300:6, AR285:6, AR089:6, AR316:6, AR186:6, AR185:6, AR240:5, AR053:5, AR249:5, AR231:5, AR271:5, AR291:5, AR289:5, AR182:5, AR312:5, AR175:4, AR253:4, AR229:4, AR248:4, AR232:4, AR309:4, AR215:4, AR226:4, AR274:4, AR219:4, AR286:4, AR296:4, AR227:4, AR237:4, AR218:4, AR259:3, AR275:3, AR294:3, AR213:3, AR242:3, AR179:3, AR293:3, AR060:3, AR170:3, AR193:3, AR233:3, AR169:2, AR224:2, AR256:2, AR257:2, AR258:2, AR171:2, AR217:2, AR172:2, AR264:1, AR195:1, AR308:1, AR163:1, AR261:1, AR161:1, AR162:1, AR199:1, AR221:1, L0754:2, L0777:2, H0717:1, H0740:1, S0212:1, S0360:1, S0408:1, H0747:1, H0004:1, H0581:1, L0142:1, H0674:1, H0646:1, S0422:1, L0809:1, L0787:1, H0521:1 and H0522:1.
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	HDPMM88	902299	375	
	HDPMM88	885059	376	
	HDPMM88	874074	377	
	HDPMM88	854246	378	
	HDPMM88	854245	379	
65	HDPNC61	637585	75	AR241:10, AR184:10, AR313:8, AR245:8, AR242:8, AR265:8, AR162:7, AR192:7, AR161:7, AR271:7, AR163:7, AR244:7, AR052:6, AR191:6, AR183:6, AR312:6, AR196:6, AR173:6, AR197:6, AR273:6, AR198:6, AR204:6, AR165:6, AR053:5, AR310:5, AR166:5, AR274:5, AR264:5, AR229:5, AR299:5, AR164:5, AR175:5, AR174:5, AR270:5, AR039:5, AR238:5, AR311:5, AR275:5, AR300:5, AR189:5, AR292:5, AR033:5, AR200:5, AR096:5, AR177:5, AR182:5, AR219:5, AR296:5, AR309:4, AR178:4, AR218:4, AR206:4, AR186:4, AR240:4, AR213:4, AR205:4, AR266:4, AR055:4, AR293:4, AR250:4, AR199:4, AR247:4, AR170:4, AR188:4, AR181:4, AR185:4, AR226:4, AR261:4, AR269:4, AR089:4, AR272:4, AR308:4, AR290:4, AR285:4, AR315:4, AR195:4, AR254:4, AR284:4, AR193:4, AR295:4, AR268:3, AR258:3, AR236:3, AR243:3, AR212:3, AR234:3, AR253:3, AR190:3, AR316:3, AR298:3, AR235:3, AR286:3, AR291:3, AR179:3, AR262:3, AR217:3, AR294:3, AR282:3, AR314:3, AR104:3, AR246:3, AR257:3, AR237:3, AR249:3, AR168:3, AR203:3, AR233:3, AR248:3, AR280:3, AR255:3, AR180:3, AR259:3, AR277:3, AR230:3, AR267:3, AR297:3, AR201:3, AR207:3, AR231:3, AR216:2, AR223:2, AR289:2, AR171:2, AR288:2, AR221:2, AR287:2, AR060:2, AR227:2, AR225:2, AR211:2, AR176:2, AR239:2, AR222:2, AR210:2, AR232:2, AR256:1, AR260:1, AR263:1, AR283:1, AR194:1, AR061:1, AR228:1, L0766:3, L0764:2, L0771:2, L0439:2, L0731:2, H0739:1, H0747:1, H0749:1, H0415:1, H0057:1, T0006:1, L0598:1, L0800:1, L0768:1, L0794:1, L0803:1, L0774:1, L0807:1, L0783:1, L0519:1, L0664:1, L4560:1, L0352:1, H0522:1, L0748:1, L0747:1, L0749:1 and L0756:1.
66	HDPOJ08	731863	76	AR250:19, AR254:19, AR269:19, AR268:16, AR248:16, AR290:15, AR249:13, AR270:12, AR253:12, AR183:10, AR267:10, AR180:10, AR161:9, AR162:9, AR165:9, AR164:9, AR163:9, AR181:8, AR166:8, AR173:8, AR174:8,

67	HDPOZ56	1352319	77	<p>AR184:7, AR235:7, AR252:7, AR229:7, AR176:7, AR177:6, AR178:6, AR265:6, AR239:6, AR182:6, AR175:6, AR096:6, AR291:5, AR189:5, AR288:5, AR287:5, AR190:5, AR251:5, AR263:5, AR230:5, AR179:5, AR228:5, AR236:4, AR234:4, AR257:4, AR193:4, AR238:4, AR237:4, AR285:4, AR233:4, AR289:4, AR185:4, AR311:4, AR286:4, AR308:4, AR226:4, AR282:4, AR264:4, AR240:4, AR232:4, AR201:4, AR261:4, AR292:4, AR089:4, AR210:4, AR212:4, AR295:4, AR247:4, AR297:4, AR275:4, AR262:4, AR245:4, AR195:4, AR188:4, AR231:4, AR197:4, AR309:4, AR196:4, AR284:4, AR191:4, AR299:4, AR313:3, AR255:3, AR199:3, AR200:3, AR293:3, AR300:3, AR316:3, AR296:3, AR246:3, AR203:3, AR243:3, AR294:3, AR214:3, AR104:3, AR060:3, AR219:3, AR298:3, AR033:3, AR227:3, AR053:3, AR221:2, AR271:2, AR312:2, AR223:2, AR218:2, AR061:2, AR259:2, AR224:2, AR217:2, AR277:2, AR225:2, AR258:2, AR215:2, AR039:2, AR168:2, AR266:2, AR211:2, AR055:2, AR222:2, AR205:2, AR216:2, AR202:1, AR213:1, AR260:1, AR256:1, AR314:1, S0474:29, L0766:11, H0521:10, L0803:7, L0748:6, L0717:5, L0759:5, S0003:4, L3832:4, H0663:3, H0156:3, L0598:3, L0770:3, L0771:3, L0804:3, L2439:3, H0522:3, L0731:3, S0436:3, H0486:2, S0426:2, L0805:2, L0659:2, L2260:2, S0126:2, S0406:2, L0749:2, L0755:2, L0757:2, L0758:2, L0590:2, S0026:2, H0716:1, H0341:1, S0212:1, L0481:1, S0444:1, S0360:1, L3649:1, H0637:1, H0580:1, H0734:1, H0749:1, L3092:1, H0619:1, L3388:1, H0586:1, H0574:1, H0427:1, L0021:1, H0575:1, H0318:1, H0545:1, H0024:1, H0373:1, H0071:1, S0214:1, H0428:1, H0674:1, H0591:1, H0616:1, H0488:1, H0494:1, S0438:1, S0440:1, H0647:1, S0142:1, UNKWN:1, L0369:1, L0763:1, L0769:1, L0646:1, L0648:1, L0662:1, L0650:1, L0775:1, L0653:1, L0776:1, L0656:1, L0782:1, L0809:1, L0519:1, S0052:1, L2657:1, H0144:1, L3823:1, H0520:1, H0547:1, H0660:1, S0380:1, L0742:1, L0439:1, L0750:1, L0777:1, S0031:1, H0445:1, S0434:1, H0665:1, H0667:1, S0194:1, S0276:1 and S0458:1.</p>
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	HDPOZ56	815653	380	
	HDPOZ56	743479	381	
68	HDPPN86	1037893	78	<p>AR212:4, AR235:3, AR266:2, AR221:2, AR207:2, AR205:2, AR216:2, AR168:2, AR282:2, AR257:2, AR181:1, AR311:1,</p>

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	HDPPN86	895711	382		
69	HDPSB18	1043263	79		AR197:9, AR060:8, AR253:8, AR161:8, AR162:8, AR163:8, AR165:8, AR164:7, AR089:7, AR166:7, AR204:7, AR192:7, AR207:7, AR177:6, AR193:6, AR185:6, AR235:6, AR271:6, AR195:6, AR053:6, AR312:6, AR233:6, AR232:6, AR174:5, AR282:5, AR104:5, AR299:5, AR227:5, AR212:5, AR181:5, AR309:5, AR264:5, AR205:5, AR308:5, AR178:5, AR237:5, AR061:5, AR313:5, AR300:5, AR175:5, AR263:5, AR247:5, AR223:5, AR173:5, AR226:5, AR272:5, AR243:5, AR240:5, AR311:5, AR055:5, AR269:5, AR201:4, AR229:4, AR286:4, AR182:4, AR246:4, AR236:4, AR295:4, AR316:4, AR285:4, AR261:4, AR293:4, AR275:4, AR291:4, AR228:4, AR274:4, AR296:4, AR176:4, AR213:4, AR297:4, AR179:4, AR270:4, AR254:4, AR039:4, AR239:4, AR262:4, AR288:4, AR180:4, AR287:4, AR096:4, AR238:4, AR183:4, AR203:4, AR033:4, AR257:4, AR234:4, AR230:4, AR294:3, AR198:3, AR289:3, AR255:3, AR266:3, AR258:3, AR267:3, AR283:3, AR168:3, AR217:3, AR231:3, AR214:3, AR277:3, AR252:3, AR196:3, AR250:3, AR218:3, AR245:3, AR190:2, AR216:2, AR268:2, AR224:2, AR290:2, AR188:2, AR191:2, AR189:2, AR221:2, AR260:2, AR222:2, AR200:2, AR171:2, AR211:2, AR210:2, AR219:2, AR172:2, AR199:2, AR215:1, AR170:1, AR225:1, AR256:1, L0769:5, L0774:3, H0656:2, S0442:2, S0358:2, S0360:2, S0278:2, H0620:2, L0500:2, L0775:2, L0710:2, L0777:2, L0752:2, L0588:2, H0149:1, H0295:1, T0049:1, H0381:1, H0484:1, H0483:1, H0638:1, S0420:1, S0444:1, S0408:1, S0045:1, H0587:1, H0318:1, H0204:1, H0530:1, H0545:1, H0178:1, L0471:1, L0142:1, H0181:1, H0087:1, H0412:1, H0623:1, H0100:1, S0438:1, H0633:1, H0646:1, H0529:1, L0506:1, L0761:1, L0764:1, L0648:1, L0766:1, L0497:1, L0493:1, L0511:1, L0665:1, L2260:1, H0698:1, H0690:1, H0521:1, S0406:1, S014:1, L0747:1, L0780:1, H0543:1 and H0422:1.
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	HDPSB18	905414	384		
	HDPSB18	732097	385		
70	HDPSH53	1309174	80		AR214:47, AR207:47, AR263:40, AR222:34, AR169:33, AR235:33, AR212:31, AR213:30, AR223:29, AR170:29, AR311:29, AR309:28, AR168:28, AR195:27, AR264:26, AR192:26, AR224:26, AR216:24, AR295:24, AR171:24, AR245:24, AR217:23, AR172:23, AR198:22, AR308:22, AR271:22, AR161:21, AR162:21, AR163:21, AR252:21, AR261:21, AR288:21, AR053:20, AR166:20, AR197:20, AR242:20, AR201:20, AR033:19, AR205:19, AR177:19, AR312:19, AR193:19, AR165:18, AR240:18, AR229:18, AR277:18, AR254:18, AR164:18, AR225:17, AR246:17, AR297:17, AR236:17, AR285:16, AR291:16, AR275:16, AR238:16, AR272:16, AR174:15, AR296:15, AR274:15, AR232:15, AR286:14, AR282:14, AR230:13, AR181:13, AR211:13, AR250:13, AR226:13, AR239:13, AR287:12, AR227:12, AR283:12, AR247:12, AR237:12, AR289:12, AR215:12, AR316:12, AR204:12, AR210:12, AR176:12, AR180:12, AR293:12, AR231:11, AR270:11, AR300:11, AR299:11, AR262:11, AR175:11, AR185:11, AR243:11, AR196:11, AR221:11, AR258:10, AR269:10, AR200:10, AR313:10, AR089:10, AR253:10, AR183:10, AR294:10, AR268:9, AR061:9, AR104:9, AR173:9, AR234:9, AR199:9, AR096:9, AR179:9, AR218:8, AR178:8, AR233:8, AR257:8, AR219:8, AR255:8, AR266:8, AR290:8, AR267:8, AR188:8, AR228:8, AR189:7, AR055:7, AR060:7, AR203:7, AR191:7,

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	HDPSH53	882768	387	
71	HDPSP01	1352280	81	AR169:8, AR235:5, AR265:5, AR180:4, AR176:4, AR161:4, AR163:4, AR311:4, AR162:4, AR269:3, AR165:3, AR172:3, AR171:3, AR222:3, AR166:3, AR183:3, AR225:3, AR168:3, AR282:3, AR224:3, AR245:3, AR272:3, AR196:3, AR223:3, AR297:3, AR221:2, AR182:2, AR298:2, AR164:2, AR261:2, AR257:2, AR170:2, AR270:2, AR289:2, AR216:2, AR173:2, AR191:2, AR214:2, AR287:2, AR296:2, AR242:2, AR228:2, AR247:2, AR295:2, AR255:2, AR192:2, AR240:2, AR174:2, AR227:2, AR053:2, AR275:2, AR203:2, AR266:2, AR288:2, AR215:2, AR277:2, AR239:2, AR291:2, AR264:2, AR263:2, AR285:2, AR230:2, AR190:2, AR310:2, AR189:2, AR274:1, AR181:1, AR286:1, AR179:1, AR226:1, AR246:1, AR231:1, AR178:1, AR175:1, AR238:1, AR233:1, AR273:1, AR290:1, AR243:1, AR200:1, AR293:1, AR294:1, AR309:1, AR284:1, AR312:1, AR313:1, AR234:1, AR229:1, AR061:1, AR300:1, AR217:1, AR268:1, AR292:1, AR089:1, AR262:1, L0769:6, L0751:5, L0752:5, H0617:4, L0806:4, L0731:4, L0771:3, L0774:3, H0370:2, S0314:2, H0551:2, H0059:2, L0792:2, L0745:2, L0750:2, L0777:2, S0444:1, H0728:1, S0132:1, H0550:1, H0392:1, H0586:1, H0427:1, H0618:1, H0052:1, H0545:1, H0123:1, H0620:1, S0051:1, H0135:1, H0100:1, H0494:1, L0800:1, L0764:1, L0804:1, L0775:1, L0805:1, L0783:1, L0809:1, L0666:1, L0665:1, H0684:1, S0328:1, H0521:1, H0555:1, H0478:1, L0743:1, L0747:1, L0779:1, L0780:1, L0755:1 and S0434:1.
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72	HDPSP54	744440	82	AR263:53, AR207:53, AR214:51, AR169:41, AR224:40, AR222:38, AR223:37, AR195:36, AR235:32, AR217:31, AR212:31, AR168:30, AR172:30, AR311:29, AR053:28, AR192:28, AR196:28, AR171:27, AR198:27, AR213:27, AR221:27, AR161:26, AR264:26, AR252:26, AR162:25, AR170:25, AR210:25, AR245:24, AR033:23, AR225:23, AR216:23, AR163:22, AR089:22, AR261:22, AR215:21, AR271:21, AR177:21, AR181:21, AR104:21, AR295:20, AR218:20, AR236:19, AR193:19, AR191:19, AR211:19, AR197:18, AR185:18, AR055:18, AR219:18, AR201:18, AR240:18, AR165:17, AR316:17, AR166:17, AR299:17, AR164:17, AR060:17, AR253:17, AR174:16, AR242:16, AR288:16, AR199:16, AR205:16, AR246:15, AR282:15, AR039:15, AR238:15, AR308:15, AR229:15, AR175:14, AR188:14, AR285:14, AR297:14, AR254:14, AR189:14, AR232:14, AR277:13, AR300:13, AR287:13, AR243:13, AR230:13, AR312:13, AR291:13, AR286:12, AR204:12, AR250:12, AR226:12, AR173:12, AR200:12, AR239:12, AR176:12, AR274:11, AR296:11, AR096:11, AR309:11, AR203:11, AR231:11, AR270:11, AR247:11, AR293:11, AR190:11, AR283:10, AR258:10, AR267:10, AR234:10, AR289:10, AR262:10, AR178:10, AR268:10, AR227:10, AR313:10, AR180:10, AR237:10, AR179:9, AR257:9, AR182:9, AR269:9, AR255:9, AR233:9, AR260:9, AR061:9, AR183:9, AR290:8, AR275:8, AR272:8, AR266:8, AR294:7, AR256:7, AR228:6, L0740:8, L0662:3, L0659:3, L0663:3, S0422:2, L0646:2, L0766:2, L0439:2, L0779:2, H0171:1, S0624:1, S0110:1, S0360:1, H0411:1, H0455:1, S0474:1, H0510:1, S0438:1, L0637:1, L5565:1, L0771:1, L0773:1, L0794:1, L0804:1, L0787:1, L0665:1, L0438:1, H0521:1, S0406:1, L0754:1, L0755:1 and L0758:1.
	HDPSP54	502472	389	
73	HDPTD15	692917	83	AR214:32, AR223:30, AR222:27, AR224:27, AR225:24, AR169:24, AR165:22, AR164:22, AR221:22, AR215:22,

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75	HDPWN93	992925	85	<p>AR313:5, AR089:5, AR207:5, AR096:5, AR219:5, AR277:4, AR299:4, AR162:4, AR161:4, AR165:4, AR274:4, AR104:4, AR193:4, AR164:4, AR240:4, AR166:4, AR163:4, AR264:4, AR282:4, AR250:4, AR316:4, AR218:3, AR215:3, AR185:3, AR178:3, AR196:3, AR311:3, AR216:3, AR039:3, AR300:3, AR055:3, AR225:3, AR245:3, AR312:3, AR060:3, AR291:3, AR195:3, AR188:3, AR198:3, AR269:2, AR257:2, AR308:2, AR285:2, AR270:2, AR297:2, AR247:2, AR288:2, AR180:2, AR221:2, AR223:2, AR182:2, AR266:2, AR243:2, AR201:2, AR283:2, AR213:2, AR232:2, AR200:2, AR224:2, AR212:2, AR293:2, AR173:2, AR191:2, AR262:2, AR053:2, AR229:2, AR189:2, AR275:2, AR181:2, AR203:2, AR237:2, AR217:2, AR226:2, AR205:2, AR268:2, AR287:2, AR214:2, AR255:2, AR171:2, AR290:2, AR272:2, AR286:2, AR309:2, AR174:2, AR246:2, AR271:2, AR289:2, AR227:2, AR296:2, AR238:1, AR175:1, AR231:1, AR261:1, AR256:1, AR294:1, AR179:1, AR199:1, AR234:1, AR190:1, AR295:1, AR233:1, AR177:1, AR033:1, AR267:1, AR239:1 H0618:17, H0253:16,</p>

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	HDPWN93	887914	390	
	HDPWN93	905983	391	
76	HDPXY01	879048	86	AR207:8, AR165:8, AR245:8, AR214:8, AR164:8, AR275:8, AR163:8, AR162:8, AR263:8, AR169:8, AR195:7, AR166:7, AR274:7, AR161:7, AR309:7, AR272:7, AR170:7, AR212:7, AR308:6, AR311:6, AR198:6, AR089:6, AR060:6, AR197:6, AR192:6, AR264:6, AR039:6, AR177:6, AR243:6, AR223:6, AR235:5, AR213:5, AR096:5, AR282:5, AR168:5, AR313:5, AR222:5, AR240:5, AR204:5, AR217:5, AR261:5, AR193:4, AR312:4, AR104:4, AR224:4, AR246:4, AR176:4, AR055:4, AR299:4, AR171:4, AR283:4, AR271:4, AR277:4, AR174:4, AR316:4, AR178:4, AR295:4, AR053:4, AR205:4, AR185:4, AR237:4, AR033:4, AR247:4, AR300:4, AR266:4, AR257:3, AR270:3, AR181:3, AR293:3, AR233:3, AR250:3, AR225:3, AR288:3, AR291:3, AR216:3, AR296:3, AR201:3, AR286:3, AR285:3, AR268:3, AR228:3, AR297:3, AR254:3, AR294:3, AR252:3, AR269:3, AR229:3, AR287:3, AR232:3, AR061:3, AR234:3, AR289:3, AR183:3, AR227:3, AR231:3, AR211:3, AR267:3, AR230:3, AR255:3, AR236:3, AR239:2, AR226:2, AR179:2, AR200:2, AR182:2, AR262:2, AR175:2, AR203:2, AR180:2, AR290:2, AR196:2, AR199:2, AR189:2, AR258:2, AR173:2, AR210:2, AR191:2, AR238:1, AR190:1, AR253:1, AR215:1, AR172:1, L0646:4, L0666:4, L0662:3, L0749:3, H0661:2, H0620:2, H0617:2, H0144:2, L0777:2, L0731:2, H0170:1, S0360:1, S0046:1, L0717:1, H0013:1, H0052:1, H0039:1, H0622:1, H0606:1, H0673:1, L0769:1, L0796:1, L5565:1, L5566:1, L0764:1, L0648:1, L0381:1, L0805:1, L0659:1, L0789:1, L0792:1, L0663:1, L0665:1, H0689:1, H0660:1, H0648:1, H0539:1, H0521:1, L0779:1 and L0603:1.
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	HDPXY01	895716	393	
	HDPXY01	895715	394	
77	HDTBD53	972757	87	AR242:4, AR246:4, AR250:3, AR263:3, AR195:3, AR272:3, AR264:3, AR170:3, AR282:3, AR215:3, AR163:3, AR162:3, AR235:3, AR089:3, AR198:3, AR165:3, AR161:3, AR197:2, AR266:2, AR053:2, AR169:2, AR212:2, AR205:2, AR285:2, AR243:2, AR312:2, AR240:2, AR270:2, AR221:2, AR296:2, AR213:2, AR178:2, AR216:2, AR261:2, AR214:2, AR299:2, AR247:2, AR060:2, AR164:2, AR267:1, AR237:1, AR183:1, AR271:1, AR172:1, AR286:1, AR179:1, AR166:1, AR291:1, AR311:1, AR316:1, AR313:1, AR288:1, AR171:1, AR188:1, AR268:1, AR269:1, AR308:1, AR173:1, AR287:1, AR297:1, AR033:1, L0439:17, L0731:17, L0747:16, L0766:13, S0360:8, L0770:8, L0659:8, L0754:8, H0553:7, L0663:7, L0749:7, L0758:7, H0486:6, S0192:6, L0662:5, L0105:4, H0644:4, L0438:4, H0547:4, L0748:4, L0751:4, L0752:4, L0755:4, L0599:4, H0542:4, H0556:3, H0662:3, S0420:3, H0599:3, H0050:3, H0266:3, H0622:3, H0135:3, H0551:3, H0529:3, L0783:3, H0519:3, H0670:3, H0521:3, H0555:3, L0750:3, H0717:2, H0663:2, H0638:2, S0476:2, H0592:2, H0013:2,

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78	HDTBD53 HDTBV77	906342 785879	395 88	<p>AR183:7, AR184:5, AR269:4, AR207:4, AR245:4, AR270:4, AR182:4, AR214:4, AR172:4, AR223:4, AR263:3, AR272:3, AR180:3, AR176:3, AR268:3, AR309:3, AR175:3, AR164:3, AR282:3, AR166:3, AR222:3, AR225:3, AR216:3, AR308:3, AR052:3, AR247:3, AR289:3, AR165:3, AR266:2, AR312:2, AR162:2, AR169:2, AR291:2, AR297:2, AR284:2, AR193:2, AR205:2, AR257:2, AR296:2, AR267:2, AR195:2, AR265:2, AR171:2, AR217:2, AR298:2, AR246:2, AR202:2, AR264:2, AR229:2, AR238:2, AR277:2, AR213:2, AR178:2, AR230:2, AR313:2, AR243:2, AR288:2, AR311:2, AR161:2, AR235:2, AR253:2, AR168:2, AR290:2, AR294:2, AR215:2, AR224:2, AR286:2, AR181:2, AR212:2, AR287:2, AR173:2, AR221:2, AR039:2, AR163:2, AR200:2, AR061:2, AR170:2, AR274:2, AR053:2, AR089:2, AR236:2, AR228:2, AR293:2, AR199:2, AR310:1, AR196:1, AR174:1, AR300:1, AR240:1, AR096:1, AR231:1, AR271:1, AR201:1, AR259:1, AR177:1, AR060:1, AR261:1, AR237:1, AR316:1, AR179:1, AR192:1, AR262:1, AR190:1, AR234:1, AR295:1, AR285:1, AR239:1, AR258:1, AR299:1, AR204:1, AR233:1, AR197:1, AR211:1, AR254:1 H0553:3, H0717:2, H0486:1, H0427:1, H0081:1, H0014:1, S0388:1, H0112:1, H0030:1, H0031:1, H0644:1, H0488:1, H0519:1, L0759:1, H0543:1 and H0506:1.</p>
79	HDTDQ23	1306984	89	<p>AR200:16, AR311:15, AR272:13, AR264:12, AR165:11, AR164:11, AR188:11, AR312:10, AR166:10, AR211:10, AR104:10, AR282:10, AR191:10, AR246:9, AR096:9, AR189:9, AR162:9, AR199:9, AR161:9, AR163:9, AR274:9, AR196:9, AR308:8, AR174:8, AR089:8, AR240:8, AR309:7, AR175:7, AR218:7, AR219:7, AR190:7, AR295:7, AR203:7, AR316:7, AR299:7, AR313:6, AR285:6, AR247:6, AR185:6, AR275:6, AR263:6, AR183:6, AR245:6, AR060:6, AR181:6, AR212:6, AR039:6, AR053:5, AR288:5, AR269:5, AR268:5, AR243:5, AR291:5, AR290:5, AR033:5, AR173:5, AR238:5, AR267:5, AR231:5, AR176:5, AR271:5, AR300:4, AR237:4, AR205:4, AR266:4, AR177:4, AR182:4, AR223:4, AR270:4, AR296:4, AR213:4, AR277:4, AR229:4, AR178:4, AR261:4, AR171:4, AR297:3, AR195:3, AR287:3, AR239:3, AR232:3, AR230:3, AR255:3, AR234:3, AR226:3, AR257:3, AR286:3, AR293:3, AR258:3, AR236:3, AR193:3, AR262:3, AR168:3, AR180:3, AR252:3, AR289:3, AR221:3, AR225:3, AR250:3, AR179:3, AR294:3, AR216:2, AR201:2, AR198:2, AR233:2, AR061:2, AR172:2, AR222:2, AR055:2, AR170:2, AR215:2, AR256:2, AR228:2, AR227:2, AR224:2, AR214:1, AR283:1, AR197:1, AR260:1, AR235:1, AR253:1 L0659:5, L0666:4, L0665:4, L2634:3, L0471:2, H0031:2, L0646:2, L0794:2, L0766:2, L0657:2, H0265:1, H0685:1, L0785:1, S0356:1, S0376:1, S0360:1, H0742:1, S0007:1, H0747:1, H0486:1, L2540:1, H0069:1, H0025:1, H0457:1, H0252:1, H0428:1, L0055:1, H0038:1, S0344:1, L0625:1, L0761:1, L0800:1, L0553:1, L0649:1, L0803:1, L0650:1, L0606:1, L3872:1, L0791:1, L0663:1, L0664:1, H0684:1, H0435:1,</p>

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	HDTDQ23	751707	397		
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81	HE2DE47 HE2EB74	382025 513662	398 91		AR196:12, AR161:8, AR162:8, AR163:8, AR285:6, AR165:6, AR164:6, AR243:6, AR166:6, AR232:6, AR287:6, AR188:6, AR269:5, AR261:5, AR295:5, AR174:5, AR291:5, AR226:5, AR257:5, AR233:5, AR171:5, AR236:5, AR191:4, AR264:4, AR263:4, AR266:4, AR296:4, AR182:4, AR275:4, AR288:4, AR286:4, AR178:4, AR255:4, AR176:4, AR258:4, AR060:4, AR089:4, AR299:4, AR308:4, AR238:4, AR309:4, AR175:4, AR104:4, AR311:4, AR297:4, AR239:4, AR260:4, AR179:3, AR177:3, AR274:3, AR181:3, AR237:3, AR256:3, AR300:3, AR289:3, AR185:3, AR096:3, AR123:3, AR172:3, AR235:3, AR189:3, AR224:3, AR262:3, AR272:3, AR270:3, AR169:3, AR316:3, AR203:3, AR234:3, AR228:3, AR055:3, AR212:3, AR290:3, AR215:3, AR190:3, AR268:3, AR200:3, AR313:3, AR293:3, AR053:3, AR267:3, AR173:2, AR170:2, AR180:2, AR294:2, AR229:2, AR230:2, AR240:2, AR227:2, AR039:2, AR247:2, AR210:2, AR282:2, AR199:2, AR271:2, AR219:2, AR250:2, AR168:2, AR061:2, AR183:2, AR033:2, AR277:2, AR217:2, AR222:2, AR223:2, AR283:2, AR213:1, AR216:1, AR193:1, H0170:1, L0717:1, H0586:1, H0486:1, H0596:1, L0770:1, L0637:1, L0521:1, L0766:1, L0666:1, H0658:1, L0779:1, L0731:1, L0759:1 and H0543:1.
82	HE2NV57	740750	92		AR235:6, AR282:4, AR309:4, AR171:4, AR270:4, AR178:3, AR272:3, AR245:3, AR269:3, AR291:3, AR169:3, AR268:3, AR213:3, AR215:3, AR254:3, AR267:3, AR289:3, AR274:3, AR236:3, AR175:3, AR053:3, AR228:3, AR261:3, AR242:2, AR161:2, AR181:2, AR308:2, AR300:2, AR257:2, AR238:2, AR182:2, AR266:2, AR204:2, AR237:2, AR170:2, AR288:2,

83	HE2PH36	570903	93	<p>AR290:2, AR188:2, AR297:2, AR168:2, AR262:2, AR162:2, AR296:2, AR233:2, AR210:2, AR285:2, AR295:2, AR264:2, AR293:2, AR165:2, AR229:2, AR201:2, AR189:2, AR250:2, AR164:2, AR221:2, AR195:2, AR222:2, AR223:2, AR239:2, AR231:2, AR294:2, AR166:2, AR191:2, AR179:2, AR255:2, AR271:2, AR287:2, AR212:2, AR234:2, AR299:2, AR225:2, AR203:2, AR246:2, AR200:2, AR205:1, AR089:1, AR173:1, AR176:1, AR240:1, AR286:1, AR193:1, AR199:1, AR258:1, AR196:1, AR232:1, AR096:1, AR243:1, AR312:1, AR185:1, AR061:1, AR183:1, AR230:1, AR060:1 S0414:3, L0805:3, S0412:3, H0457:2, L0756:2, H0170:1, H0645:1, H0455:1, H0421:1, H0100:1, L0803:1, S0052:1, S0374:1, H0696:1 and L0743:1.</p> <p>AR263:75, AR171:60, AR309:59, AR264:59, AR252:58, AR168:57, AR223:54, AR169:49, AR308:46, AR311:44, AR214:44, AR053:42, AR172:38, AR312:37, AR170:37, AR225:36, AR246:36, AR212:34, AR272:33, AR217:32, AR197:32, AR245:32, AR222:31, AR213:30, AR207:30, AR224:30, AR198:27, AR096:27, AR196:26, AR195:26, AR313:25, AR205:25, AR216:24, AR201:23, AR218:22, AR215:21, AR254:21, AR235:21, AR165:20, AR261:20, AR253:20, AR274:20, AR243:20, AR221:19, AR164:19, AR316:19, AR275:19, AR250:19, AR192:18, AR166:18, AR161:18, AR162:18, AR177:18, AR163:18, AR271:18, AR174:17, AR039:17, AR200:17, AR089:17, AR240:16, AR296:16, AR219:16, AR188:16, AR193:16, AR033:15, AR295:15, AR185:14, AR189:14, AR229:14, AR060:14, AR299:13, AR236:13, AR203:13, AR242:13, AR183:13, AR190:13, AR210:12, AR104:12, AR282:12, AR178:12, AR300:12, AR181:12, AR175:12, AR268:12, AR199:12, AR226:11, AR211:11, AR191:11, AR269:11, AR173:11, AR204:10, AR277:10, AR270:10, AR180:10, AR297:10, AR247:10, AR288:10, AR290:9, AR179:9, AR285:9, AR291:9, AR176:9, AR262:9, AR239:9, AR283:9, AR238:8, AR182:8, AR267:8, AR237:8, AR055:8, AR287:8, AR257:8, AR289:8, AR231:7, AR293:7, AR258:7, AR255:7, AR232:7, AR286:7, AR230:7, AR234:7, AR256:7, AR266:6, AR233:6, AR227:6, AR294:6, AR228:5, AR260:5, AR061:4 H0171:1, S0114:1 and S0356:1.</p> <p>AR180:17, AR181:15, AR178:15, AR096:14, AR182:13, AR179:13, AR246:13, AR175:13, AR191:12, AR183:12, AR190:12, AR240:11, AR268:10, AR270:10, AR174:10, AR269:10, AR173:9, AR243:9, AR176:9, AR060:8, AR185:7, AR255:7, AR189:7, AR201:7, AR192:7, AR039:7, AR193:7, AR197:7, AR257:7, AR055:6, AR295:6, AR290:6, AR296:6, AR299:6, AR285:6, AR288:6, AR207:5, AR291:5, AR188:5, AR254:5, AR287:5, AR297:5, AR218:5, AR294:5, AR316:5, AR235:5, AR293:5, AR242:4, AR264:4, AR245:4, AR089:4, AR236:4, AR177:4, AR195:4, AR161:4, AR198:4, AR271:4, AR162:4, AR163:4, AR204:4, AR205:4, AR165:4, AR275:4, AR196:4, AR267:4, AR262:4, AR164:4, AR260:4, AR286:3, AR261:3, AR300:3, AR104:3, AR289:3, AR169:3, AR313:3, AR168:3, AR033:3, AR266:3, AR238:3, AR253:3, AR247:3, AR222:3, AR258:3, AR233:3, AR228:3, AR200:3, AR312:3, AR166:3, AR229:2, AR224:2, AR272:2, AR199:2, AR231:2, AR250:2, AR203:2, AR061:2, AR263:2, AR237:2, AR053:2, AR219:2, AR226:2, AR230:2, AR282:2, AR277:2, AR221:2, AR274:2, AR213:2, AR283:2, AR232:2, AR217:2, AR309:2, AR227:2, AR239:2, AR214:2, AR256:2, AR234:2, AR212:2, AR308:2, AR171:1, AR216:1, AR225:1, AR252:1, AR170:1 L0779:8, L0770:7, L0731:7, L0662:6, L0803:5, L0599:5, L0758:4, H0739:3, H0624:3, H0486:3, H0615:3, L0748:3, L0750:3, H0713:2, S0222:2, H0575:2, H0050:2, H0031:2, H0553:2, S0036:2, H0038:2, S0422:2, L0804:2, L0774:2, L0775:2, L0647:2, L0438:2, L0742:2, L0743:2, L0747:2, L0777:2, L0605:2, L0485:2, H0171:1, H0717:1, S0442:1, H0208:1, H0411:1, H0586:1, H0587:1, L3655:1, H0013:1, H0156:1, H0108:1, H0581:1, S0049:1, H0194:1, H0572:1, H0123:1, L0471:1, H0024:1, H0373:1, S0051:1, S6028:1, H0188:1, H0644:1, H0628:1, H0383:1, H0316:1, T0067:1, L0768:1, L0794:1, L0375:1, L0806:1, L0659:1, L0532:1,</p>
84	HE8DS15	847060	94	<p>AR180:17, AR181:15, AR178:15, AR096:14, AR182:13, AR179:13, AR246:13, AR175:13, AR191:12, AR183:12, AR190:12, AR240:11, AR268:10, AR270:10, AR174:10, AR269:10, AR173:9, AR243:9, AR176:9, AR060:8, AR185:7, AR255:7, AR189:7, AR201:7, AR192:7, AR039:7, AR193:7, AR197:7, AR257:7, AR055:6, AR295:6, AR290:6, AR296:6, AR299:6, AR285:6, AR288:6, AR207:5, AR291:5, AR188:5, AR254:5, AR287:5, AR297:5, AR218:5, AR294:5, AR316:5, AR235:5, AR293:5, AR242:4, AR264:4, AR245:4, AR089:4, AR236:4, AR177:4, AR195:4, AR161:4, AR198:4, AR271:4, AR162:4, AR163:4, AR204:4, AR205:4, AR165:4, AR275:4, AR196:4, AR267:4, AR262:4, AR164:4, AR260:4, AR286:3, AR261:3, AR300:3, AR104:3, AR289:3, AR169:3, AR313:3, AR168:3, AR033:3, AR266:3, AR238:3, AR253:3, AR247:3, AR222:3, AR258:3, AR233:3, AR228:3, AR200:3, AR312:3, AR166:3, AR229:2, AR224:2, AR272:2, AR199:2, AR231:2, AR250:2, AR203:2, AR061:2, AR263:2, AR237:2, AR053:2, AR219:2, AR226:2, AR230:2, AR282:2, AR277:2, AR221:2, AR274:2, AR213:2, AR283:2, AR232:2, AR217:2, AR309:2, AR227:2, AR239:2, AR214:2, AR256:2, AR234:2, AR212:2, AR308:2, AR171:1, AR216:1, AR225:1, AR252:1, AR170:1 L0779:8, L0770:7, L0731:7, L0662:6, L0803:5, L0599:5, L0758:4, H0739:3, H0624:3, H0486:3, H0615:3, L0748:3, L0750:3, H0713:2, S0222:2, H0575:2, H0050:2, H0031:2, H0553:2, S0036:2, H0038:2, S0422:2, L0804:2, L0774:2, L0775:2, L0647:2, L0438:2, L0742:2, L0743:2, L0747:2, L0777:2, L0605:2, L0485:2, H0171:1, H0717:1, S0442:1, H0208:1, H0411:1, H0586:1, H0587:1, L3655:1, H0013:1, H0156:1, H0108:1, H0581:1, S0049:1, H0194:1, H0572:1, H0123:1, L0471:1, H0024:1, H0373:1, S0051:1, S6028:1, H0188:1, H0644:1, H0628:1, H0383:1, H0316:1, T0067:1, L0768:1, L0794:1, L0375:1, L0806:1, L0659:1, L0532:1,</p>

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86	HE9DG49	1299935	96	AR170:5, AR223:3, AR225:3, AR168:2, AR266:2, AR252:2, AR309:2, AR264:2, AR221:2, AR243:2, AR224:2, AR060:1, AR183:1, AR232:1, AR299:1, AR269:1, AR213:1, AR199:1, AR296:1, AR277:1, AR282:1, AR311:1 H0421:1 and H0144:1.
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	HE9DG49	382000	400	
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91	HELHD85	847372	101	AR263:4, AR221:2, AR233:2, AR225:2, AR287:2, AR271:2, AR214:2, AR198:2, AR296:2, AR196:1, AR282:1, AR172:1, AR269:1, AR313:1, AR264:1, AR216:1 L0743:3, S0408:2, S0022:2, L0772:2, L0805:2, L0749:2, S0242:2, H0716:1, S0116:1, H0662:1, S0360:1, S0045:1, H0392:1, H0455:1, L0021:1, H0599:1, T0082:1, H0309:1, H0046:1, H0086:1, H0024:1, H0628:1, H0617:1, H0606:1, H0487:1, H0509:1, L0763:1, L0646:1, L0641:1, L0649:1, L0803:1, L0652:1, L0629:1, L0659:1, L0787:1, L0665:1, S0053:1, S0027:1, S0032:1, L0744:1, L0751:1, L0747:1 and L0779:1.
92	HEOMQ63	603533	102	AR039:7, AR221:4, AR271:4, AR309:3, AR283:3, AR252:3, AR171:3, AR162:3, AR180:3, AR163:3, AR243:3, AR217:3, AR161:3, AR176:3, AR165:3, AR213:3, AR282:3, AR164:3, AR291:3, AR296:3, AR245:2, AR235:2, AR089:2, AR263:2, AR231:2, AR246:2, AR297:2, AR313:2, AR224:2, AR172:2, AR195:2, AR174:2, AR286:2, AR168:2, AR060:2, AR289:2, AR201:2, AR294:2, AR177:2, AR300:2, AR225:2, AR211:2, AR179:2, AR229:1, AR240:1, AR205:1, AR239:1, AR285:1, AR299:1, AR257:1, AR264:1, AR212:1, AR166:1, AR316:1, AR287:1, AR227:1, AR247:1, AR270:1, AR170:1, AR216:1, AR096:1, AR237:1, AR104:1 L0766:3, L0777:2, S0116:1, S0376:1, H0457:1, S0440:1, L0771:1, L0803:1, L0804:1, L0657:1, L0659:1, H0525:1, S0406:1 and L0750:1.
93	HEPAA46	596830	103	AR215:19, AR245:4, AR221:4, AR224:3, AR282:3, AR053:3, AR252:3, AR309:3, AR176:2, AR162:2, AR169:2, AR266:2, AR166:2, AR263:2, AR214:2, AR161:2, AR163:2, AR172:2, AR183:2, AR165:2, AR177:2, AR164:2, AR182:2, AR313:2, AR264:2, AR283:2, AR193:2, AR236:1, AR175:1, AR217:1, AR233:1, AR286:1, AR171:1, AR257:1, AR223:1, AR277:1, AR297:1, AR255:1, AR296:1, AR289:1, AR295:1, AR207:1, AR204:1, AR267:1, AR181:1, AR033:1, AR180:1, AR234:1, AR179:1, AR299:1, AR271:1, AR188:1, AR230:1, AR262:1, AR178:1, AR287:1, AR229:1, AR201:1, AR270:1, AR291:1, AR185:1, AR247:1, AR205:1, AR170:1, AR294:1, AR290:1, AR212:1, AR237:1 H0549:3, H0150:2, L0779:2 and L0758:1.
94	HEPAB80	1307790	104	AR191:117, AR190:89, AR245:79, AR271:76, AR175:71, AR178:66, AR189:63, AR240:60, AR246:60, AR269:58, AR174:58, AR188:56, AR196:55, AR180:54, AR197:54, AR176:53, AR183:53, AR211:52, AR274:50, AR182:47, AR177:47, AR207:45, AR192:44, AR235:44, AR270:44, AR179:43, AR181:41, AR268:41, AR312:40, AR264:40, AR261:39, AR165:39, AR166:39, AR263:38, AR250:38, AR164:37, AR290:37, AR252:37, AR266:35, AR200:34, AR291:34, AR210:34, AR285:33, AR255:32, AR243:32, AR295:31, AR247:30, AR254:29, AR308:28, AR236:28, AR275:28, AR201:28, AR173:28, AR033:27, AR163:26, AR267:26, AR238:26, AR195:25, AR198:25, AR253:25, AR287:25, AR193:25, AR161:24, AR260:24, AR311:24, AR288:23, AR297:23, AR162:21, AR205:21, AR294:21, AR239:20, AR256:20, AR313:20, AR289:20, AR096:20, AR060:20, AR262:19, AR300:18, AR258:18, AR185:18, AR226:17, AR272:17, AR257:17, AR219:17, AR232:16, AR039:16, AR316:16, AR293:15, AR237:15, AR296:15, AR309:15, AR282:14, AR234:14, AR224:14, AR231:13, AR053:13, AR233:13, AR203:13, AR229:13, AR286:12, AR299:12, AR199:12, AR172:11, AR222:11, AR221:11, AR212:11, AR061:11, AR089:11, AR277:10, AR169:10, AR230:10, AR242:10, AR104:10, AR223:10, AR213:9, AR228:9, AR168:9, AR218:9, AR170:8, AR204:8, AR225:8, AR227:7, AR216:6, AR214:6, AR055:5, AR171:5, AR283:5, AR215:3, AR217:2 H0150:1
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97	HFAEF57	534142	107	AR241:14, AR161:14, AR162:13, AR163:13, AR313:10, AR242:10, AR201:10, AR165:9, AR164:9, AR252:9, AR197:9, AR194:9, AR053:9, AR166:9, AR198:8, AR245:8, AR236:8, AR192:8, AR176:8, AR206:8, AR250:8, AR212:8, AR235:8, AR196:7, AR271:7, AR186:7, AR052:7, AR173:7, AR204:7, AR246:7, AR253:7, AR263:7, AR207:7, AR191:7, AR275:7, AR180:7, AR226:7, AR272:7, AR247:7, AR181:6, AR299:6, AR089:6, AR195:6, AR293:6, AR244:6, AR193:6, AR312:6, AR213:6, AR229:6, AR039:6, AR280:6, AR251:6, AR188:6, AR202:6, AR309:6, AR287:6, AR264:6, AR238:6, AR273:6,

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99	HFCCQ50	579993	109	<p>AR214:58, AR274:55, AR216:54, AR217:51, AR222:50, AR245:47, AR223:47, AR272:46, AR199:45, AR224:43, AR169:42, AR168:39, AR308:38, AR225:38, AR205:36, AR251:35, AR212:35, AR221:35, AR264:33, AR171:33, AR165:32, AR313:31, AR213:31, AR164:31, AR162:30, AR166:30, AR210:30, AR247:30, AR161:30, AR172:30, AR170:29, AR215:29, AR309:29, AR163:29, AR312:28, AR273:28, AR189:28, AR188:28, AR053:28, AR178:27, AR180:27, AR173:26, AR236:25, AR254:25, AR183:24, AR197:23, AR250:23, AR179:22, AR263:22, AR174:22, AR246:22, AR311:22, AR190:22, AR218:22, AR310:21, AR052:20, AR253:20, AR195:20, AR262:19, AR211:19, AR256:19, AR300:19, AR252:18, AR242:18, AR175:18, AR299:18, AR255:18, AR297:18, AR288:17, AR271:17, AR240:17, AR269:17, AR275:17, AR089:17, AR282:17, AR270:17, AR261:16, AR243:16, AR176:16, AR257:16, AR230:16, AR096:15, AR316:15, AR258:15, AR181:15, AR268:15, AR260:15, AR266:15, AR293:15, AR201:15, AR265:14, AR267:14, AR290:14, AR291:14, AR193:14, AR200:13, AR191:13, AR203:13, AR039:13, AR296:13, AR060:12, AR196:12, AR283:12, AR289:12, AR239:12, AR229:12, AR277:12, AR198:12, AR182:12, AR177:12, AR204:11, AR185:11, AR287:11, AR237:11, AR295:11, AR231:11, AR244:10, AR192:10, AR248:10, AR238:10, AR280:9, AR286:9, AR315:9, AR104:9, AR285:9, AR249:9, AR226:9, AR294:9, AR235:8, AR234:8, AR314:8, AR033:8, AR228:8, AR186:8, AR233:7, AR292:7, AR232:7, AR241:6, AR061:6, AR207:5, AR055:5, AR227:5, AR259:5,</p>

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115	HGBIB74	837220	125	AR214:16, AR216:13, AR217:11, AR215:9, AR161:9, AR162:9, AR163:9, AR176:8, AR250:8, AR165:8, AR178:7, AR164:7, AR170:7, AR196:7, AR166:7, AR181:7, AR228:6, AR272:6, AR197:6, AR269:6, AR309:5, AR264:5, AR089:5, AR282:5, AR175:5, AR182:5, AR248:5, AR177:5, AR270:5, AR229:5, AR223:5, AR060:5, AR268:5, AR239:5, AR195:5, AR173:5, AR183:5, AR238:4, AR245:4, AR211:4, AR172:4, AR180:4, AR174:4, AR168:4, AR201:4, AR190:4, AR210:4, AR104:4, AR265:4, AR222:4, AR247:4, AR231:4, AR275:4, AR291:4, AR179:4, AR207:4, AR203:4, AR284:4, AR308:4, AR267:4, AR061:4, AR237:4, AR233:4, AR169:4, AR189:4, AR266:4, AR312:4, AR230:4, AR200:4, AR316:4, AR185:4, AR218:4, AR299:4, AR191:4, AR225:4, AR226:3, AR240:3, AR290:3, AR212:3, AR096:3, AR188:3, AR241:3, AR271:3, AR236:3, AR205:3, AR202:3, AR311:3, AR254:3, AR274:3, AR193:3, AR055:3, AR232:3, AR227:3, AR199:3, AR255:3, AR251:3, AR053:3, AR252:3, AR033:3, AR052:3, AR313:3, AR192:3, AR263:3, AR295:3, AR287:3, AR298:3, AR243:3, AR234:3, AR213:3, AR310:3, AR289:3, AR219:3, AR224:3, AR285:3, AR286:3, AR300:3, AR293:3, AR221:2, AR246:2, AR235:2, AR261:2, AR260:2, AR258:2, AR171:2, AR292:2, AR296:2, AR294:2, AR257:2, AR039:2, AR198:2, AR253:2, AR288:2, AR297:2, AR277:2, AR283:2, AR204:2, AR256:2, AR262:2, AR242:1, AR186:1, AR194:1, H0253:7, H0618:6, H0556:2, S0356:2, H0373:2, H0522:2, L0758:2, L0603:2, S0001:1, S0278:1, H0586:1, H0050:1, H0014:1, H0644:1, S0036:1, H0038:1, H0494:1, H0625:1, S0294:1, L0769:1, H0435:1 and H0521:1.
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116	HGLAF75	566838	126	AR196:8, AR191:7, AR269:7, AR215:7, AR180:6, AR188:6, AR270:6, AR223:6, AR173:6, AR198:5, AR176:5, AR178:5, AR268:5, AR055:5, AR165:5, AR175:5, AR181:5, AR266:5, AR161:5, AR162:5, AR264:5, AR183:5, AR060:5, AR174:5, AR164:5, AR291:5, AR163:5, AR172:5, AR182:5, AR189:5, AR201:5, AR166:5, AR261:5, AR089:5, AR313:5, AR193:5, AR177:4, AR246:4, AR255:4, AR216:4, AR285:4, AR179:4, AR257:4, AR217:4, AR170:4, AR221:4, AR290:4, AR299:4, AR252:4, AR200:4, AR267:4, AR262:4, AR235:4, AR185:4, AR240:4, AR238:4, AR233:4, AR295:4, AR316:4, AR168:4, AR190:4, AR218:4, AR271:4, AR236:4, AR296:4, AR096:4, AR287:4, AR199:4, AR293:4, AR272:4, AR242:4, AR297:4, AR243:4, AR294:4, AR195:4, AR300:4, AR169:3, AR224:3, AR253:3, AR282:3, AR203:3, AR239:3, AR033:3, AR288:3, AR309:3, AR171:3, AR222:3, AR211:3, AR312:3, AR275:3, AR231:3, AR232:3, AR192:3, AR247:3, AR260:3, AR228:3,

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117	HGLAL82	520261	127	AR221:4, AR231:4, AR192:3, AR264:3, AR266:3, AR170:3, AR252:3, AR162:3, AR180:3, AR197:2, AR270:2, AR171:2, AR225:2, AR250:2, AR161:2, AR163:2, AR255:2, AR277:2, AR204:2, AR183:1, AR282:1, AR257:1, AR216:1, AR214:1, AR236:1, AR271:1, AR223:1, AR165:1, AR190:1, AR309:1, AR289:1, AR261:1, AR288:1, AR164:1, AR217:1, AR179:1, AR195:1, AR203:1, AR269:1, AR233:1, AR239:1, AR201:1, AR061:1, AR205:1, AR181:1, AR193:1, AR089:1, AR294:1, AR039:1, L0667:2, S0114:1, H0351:1, H0318:1, H0615:1 and L0764:1.
118	HHEMA59	823100	128	AR226:23, AR238:16, AR227:15, AR237:11, AR173:9, AR313:8, AR161:8, AR162:7, AR239:7, AR165:7, AR164:7, AR163:7, AR166:7, AR089:7, AR175:6, AR178:6, AR180:5, AR183:5, AR247:5, AR169:5, AR240:4, AR196:4, AR300:4, AR269:4, AR270:4, AR204:4, AR312:4, AR215:4, AR268:4, AR282:4, AR182:4, AR179:4, AR271:4, AR275:4, AR096:4, AR242:4, AR191:4, AR177:4, AR185:4, AR198:4, AR264:4, AR258:4, AR174:3, AR181:3, AR253:3, AR189:3, AR316:3, AR061:3, AR060:3, AR267:3, AR263:3, AR218:3, AR104:3, AR172:3, AR260:3, AR212:3, AR257:3, AR219:3, AR229:3, AR233:3, AR299:3, AR216:3, AR039:3, AR203:3, AR053:3, AR224:2, AR188:2, AR176:2, AR243:2, AR171:2, AR266:2, AR214:2, AR033:2, AR308:2, AR289:2, AR293:2, AR232:2, AR193:2, AR234:2, AR277:2, AR168:2, AR205:2, AR195:2, AR256:2, AR311:2, AR201:2, AR283:2, AR055:1, AR213:1, AR272:1, AR222:1, AR200:1, AR296:1, AR291:1, AR288:1, AR217:1, AR199:1, AR192:1, AR211:1, AR255:1, AR190:1, AR262:1, AR286:1, L0771:5, L0766:4, L0748:4, L0754:4, H0551:3, S0003:2, H0328:2, H0615:2, S0422:2, H0144:2, L0438:2, S0013:2, L0747:2, L0756:2, L0759:2, H0170:1, S6024:1, H0656:1, S0110:1, H0662:1, H0176:1, S0356:1, S0360:1, L0717:1, S6016:1, S0222:1, H0438:1, H0156:1, H0575:1, H0036:1, H0318:1, H0581:1, H0020:1, H0031:1, S0036:1, S0294:1, S0002:1, L0770:1, L0638:1, L0662:1, L0774:1, L0652:1, L0655:1, L0606:1, L0659:1, L0663:1, S0216:1, H0648:1, H0651:1, H0539:1, S0152:1, H0522:1, L0777:1, L0731:1, S0031:1, L0581:1, S0192:1, S0194:1, H0543:1 and H0423:1.
119	HHENV10	562772	129	AR242:3, AR235:3, AR183:3, AR309:3, AR282:3, AR243:2, AR171:2, AR283:1, AR055:1, AR257:1, AR168:1, AR213:1, AR164:1, AR230:1, AR264:1, AR287:1, H0543:2, H0497:1 and H0625:1.
120	HHPEM33	877639	130	AR263:38, AR207:37, AR311:31, AR264:30, AR212:29, AR195:27, AR309:27, AR308:26, AR165:26, AR164:25, AR053:24, AR166:24, AR213:24, AR161:23, AR162:23, AR192:23, AR198:22, AR163:22, AR245:22, AR246:22, AR312:21, AR089:21, AR271:21, AR205:21, AR223:20, AR277:20, AR214:19, AR193:19, AR197:19, AR224:19, AR274:18, AR169:18, AR282:18, AR222:18, AR242:17, AR217:17, AR283:17, AR240:16, AR039:16, AR216:16, AR275:15, AR215:15, AR235:15, AR172:15, AR104:15, AR201:15, AR168:15, AR171:14, AR060:14, AR096:14, AR170:14, AR225:14, AR261:14, AR313:14, AR243:14, AR033:14, AR253:14, AR055:13, AR316:13, AR272:13, AR204:12, AR250:12, AR221:12, AR185:12, AR219:12, AR295:12, AR254:11, AR288:11, AR291:11, AR247:11, AR297:11, AR299:11, AR287:10, AR286:10, AR236:10, AR285:10, AR300:9, AR177:9, AR210:9, AR196:9, AR296:8, AR176:8, AR218:8, AR211:8, AR226:7, AR293:7, AR289:7, AR266:7, AR258:7, AR181:7, AR199:7, AR174:7, AR262:7, AR191:7, AR061:6, AR257:6, AR238:6, AR173:6, AR178:6, AR200:6, AR175:6, AR232:6, AR270:6, AR188:6,

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121	HHFBY53	821330	131	AR191:5, AR201:4, AR215:4, AR060:3, AR188:3, AR289:2, AR255:2, AR233:2, AR274:2, AR180:2, AR193:2, AR283:2, AR033:1, AR296:1, AR240:1, AR172:1, AR089:1, AR277:1, AR312:1, AR224:1, AR225:1, AR199:1, AR210:1, AR282:1, S0360:3, H0670:3, H0556:2, H0292:2, H0686:1, H0685:1, S0134:1, S0116:1, H0662:1, H0640:1, S0300:1, H0586:1, H0642:1, L0622:1, L0586:1, H0253:1, H0050:1, H0057:1, T0006:1, L0653:1, L0657:1, L0659:1, L0787:1, L0666:1, L0663:1, H0547:1, H0659:1, H0648:1, H0436:1, L0748:1, L0362:1, L0361:1, H0653:1, H0542:1, H0423:1 and H0422:1.
122	HHFGR93	865581	132	AR184:4, AR282:3, AR217:3, AR183:3, AR266:3, AR242:2, AR269:2, AR257:2, AR225:2, AR270:2, AR274:2, AR182:2, AR291:2, AR250:1, AR235:1, AR175:1, AR162:1, AR268:1, AR290:1, AR286:1, AR204:1, AR214:1, AR177:1, AR275:1, AR194:1, AR224:1, AR261:1, AR296:1, AR293:1, AR186:1, AR284:1, L0754:4, L0747:8, H0553:5, L0755:5, L0659:4, H0124:3, H0265:2, H0556:2, H0586:2, H0427:2, H0575:2, H0050:2, L0471:2, H0616:2, H0056:2, L0764:2, L0662:2, L0794:2, L0748:2, L0751:2, L0749:2, H0750:2, H0305:1, S0358:1, S0045:1, S0046:1, H0619:1, H0441:1, H0485:1, S0280:1, H0599:1, H0042:1, H0046:1, H0569:1, H0024:1, H0051:1, H0328:1, H0030:1, H0644:1, H0361:1, H0040:1, H0413:1, S0038:1, L0770:1, L0769:1, L0800:1, L0644:1, L0363:1, L0803:1, L0804:1, L0775:1, L0806:1, L0783:1, L0666:1, L0665:1, H0144:1, S0146:1, H0555:1, S012:1, L0779:1, L0731:1, L0605:1, L0599:1, L0603:1, H0543:1, H0422:1 and H0506:1.
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123	HHGCG53	340818	133	AR192:3, AR169:3, AR264:3, AR162:3, AR309:3, AR245:3, AR250:3, AR161:3, AR163:3, AR171:3, AR193:2, AR266:2, AR176:2, AR289:2, AR283:2, AR267:2, AR197:2, AR274:2, AR242:2, AR239:2, AR295:2, AR238:2, AR225:2, AR182:2, AR263:2, AR261:2, AR183:2, AR172:1, AR269:1, AR168:1, AR231:1, AR216:1, AR237:1, AR164:1, AR228:1, AR096:1, AR215:1, AR233:1, AR252:1, AR166:1, AR232:1, AR060:1, AR277:1, AR089:1, AR290:1, AR299:1, AR240:1, AR229:1, AR282:1, AR296:1, H0333:1
124	HHGCM76	662329	134	AR245:8, AR175:7, AR183:6, AR176:6, AR196:6, AR191:6, AR174:6, AR060:5, AR254:5, AR263:5, AR039:5, AR173:5, AR177:5, AR309:5, AR261:5, AR232:4, AR161:4, AR162:4, AR096:4, AR163:4, AR182:4, AR264:4, AR089:4, AR165:4, AR198:4, AR270:4, AR275:4, AR268:4, AR178:4, AR189:4, AR164:4, AR166:3, AR286:3, AR242:3, AR193:3, AR243:3, AR216:3, AR171:3, AR283:3, AR266:3, AR215:3, AR272:3, AR211:3, AR188:3, AR313:3, AR180:3, AR207:3, AR269:3, AR200:3, AR247:3, AR316:3, AR289:3, AR290:3, AR229:3, AR294:3, AR297:3, AR195:3, AR267:3, AR061:3, AR240:3, AR295:3, AR197:3, AR238:3, AR257:3, AR190:3, AR055:3, AR228:2, AR181:2, AR053:2, AR033:2, AR288:2, AR226:2, AR282:2, AR201:2, AR239:2, AR287:2, AR231:2, AR262:2, AR223:2, AR104:2, AR285:2, AR308:2, AR218:2, AR179:2, AR293:2, AR221:2, AR311:2, AR271:2, AR225:2, AR246:2, AR185:2, AR237:2, AR299:2, AR312:2, AR274:2, AR233:2,

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	HHPGO40	560969	409	
129	HHSDX28	553494	139	<p>AR161:5, AR163:5, AR162:5, AR176:4, AR269:4, AR266:4, AR173:4, AR267:4, AR165:4, AR178:4, AR183:4, AR264:4, AR164:3, AR225:3, AR228:3, AR166:3, AR229:3, AR180:3, AR233:3, AR182:3, AR270:3, AR240:3, AR217:3, AR230:3, AR196:3, AR257:3, AR089:3, AR242:3, AR313:3, AR262:3, AR247:3, AR309:3, AR239:3, AR177:3, AR300:3, AR175:3, AR226:3, AR268:3, AR181:3, AR296:3, AR293:3, AR221:3, AR236:2, AR222:2, AR255:2, AR179:2, AR238:2, AR289:2,</p>

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133	HJACG30	895505	143	AR263:8, AR165:8, AR250:8, AR162:7, AR161:7, AR205:7, AR196:7, AR166:7, AR164:7, AR215:7, AR163:7, AR192:7,

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169	HLTHR66	699812	179	AR055:6, AR183:5, AR309:5, AR060:5, AR104:5, AR162:4, AR161:4, AR163:4, AR282:4, AR165:4, AR274:4, AR164:4, AR225:4, AR266:3, AR252:3, AR166:3, AR178:3, AR229:3, AR182:3, AR299:3, AR261:3, AR089:3, AR240:3, AR283:3, AR264:3, AR257:3, AR242:3, AR177:3, AR268:3, AR238:3, AR239:3, AR269:3, AR272:3, AR275:3, AR267:2, AR215:2, AR039:2, AR300:2, AR237:2, AR255:2, AR176:2, AR313:2, AR181:2, AR185:2, AR231:2, AR233:2, AR096:2, AR226:2, AR247:2, AR172:2, AR061:2, AR216:2, AR271:2, AR234:2, AR169:2, AR312:2, AR270:2, AR200:2, AR033:2, AR205:2, AR170:1, AR227:1, AR308:1, AR190:1, AR198:1, AR311:1, AR168:1, AR230:1, AR246:1, AR179:1, AR173:1, AR189:1, AR290:1, AR262:1, AR277:1, AR217:1, AR289:1, AR291:1, AR236:1, AR219:1, AR232:1, AR218:1, AR293:1, AR175:1, AR174:1 L0769:3, L0777:3, S0422:2, L0803:2, L0775:2, H0547:2, S0408:1, S0278:1, H0090:1, L0766:1, L0774:1, L0515:1, H0519:1, L0748:1, L0749:1, L0755:1, L0759:1 and L0592:1.
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185	HMEAI48	1352290	195	AR313:9, AR162:9, AR161:8, AR163:8, AR235:7, AR165:6, AR164:6, AR096:5, AR166:5, AR089:5, AR264:5, AR275:4, AR196:4, AR300:4, AR282:4, AR193:4, AR271:4, AR173:4, AR274:4, AR261:4, AR242:4, AR247:4, AR199:3, AR240:3, AR312:3, AR257:3, AR258:3, AR263:3, AR185:3, AR172:3, AR175:3, AR229:3, AR181:3, AR262:3, AR053:3, AR174:3, AR272:3, AR299:3, AR308:3, AR309:3, AR236:3, AR296:3, AR316:3, AR270:3, AR311:3, AR200:3, AR182:3, AR191:2, AR234:2, AR277:2, AR033:2, AR217:2, AR218:2, AR230:2, AR060:2, AR233:2, AR293:2, AR179:2, AR291:2, AR212:2, AR246:2, AR243:2, AR169:2, AR295:2, AR178:2, AR297:2, AR214:2, AR188:2, AR177:2, AR195:2, AR226:2, AR203:2, AR238:2, AR268:2, AR189:2, AR198:2, AR266:2, AR168:2, AR183:2, AR227:2, AR269:2, AR255:2, AR237:2, AR231:2, AR176:1, AR171:1, AR061:1, AR228:1, AR239:1, AR267:1, AR287:1, AR201:1, AR213:1, AR285:1, AR252:1, AR283:1, AR294:1, AR289:1, AR180:1, AR286:1, L0748:9, L0754:6, L0605:6, H0031:4, S0126:4, H0740:3, S0046:3, H0052:2, S0422:2, L0803:2, L0666:2, L0663:2, S0330:2, L0750:2, H0686:1, H0346:1, S0420:1, H0733:1, H0619:1, H0431:1, H0156:1, H0575:1, H0590:1, H0581:1, H0046:1, H0123:1, H0050:1, H0373:1, H0083:1, H0266:1, H0553:1, H0628:1, H0598:1, S0036:1, H0100:1, H0494:1, H0561:1, S0440:1, L0662:1, L0794:1, L0381:1, L0650:1, L0776:1, L0540:1, L0791:1, H0144:1, S0328:1, S0152:1, H0696:1, S0406:1, S3014:1, L0752:1, S0260:1, S0436:1, L0604:1, L0593:1, S0242:1 and H0543:1.
186	HMEED18	560775	196	AR096:11, AR270:10, AR253:10, AR243:9, AR242:8, AR213:8, AR264:7, AR263:7, AR039:7, AR250:6, AR300:6, AR309:6, AR161:6, AR162:6, AR313:6, AR163:5, AR268:5, AR312:5, AR173:5, AR282:5, AR275:5, AR176:4, AR166:4, AR246:4, AR212:4, AR240:4, AR165:4, AR254:4, AR164:4, AR089:4, AR193:4, AR195:4, AR170:4, AR311:4, AR269:4, AR308:4, AR197:3, AR247:3, AR245:3, AR299:3, AR335:3, AR252:3, AR221:3, AR316:3, AR266:3, AR225:3, AR053:3, AR177:3, AR214:2, AR228:2, AR201:2, AR234:2, AR060:2, AR283:2, AR267:2, AR229:2, AR272:2, AR231:2, AR198:2, AR104:2, AR185:2, AR174:2, AR175:2, AR237:2, AR181:2, AR055:2, AR289:2, AR207:2, AR226:2, AR179:2, AR290:2, AR239:2, AR233:2, AR257:2, AR217:2, AR277:1, AR261:1, AR061:1, AR238:1, AR171:1, AR223:1, AR260:1, H0266:1
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188	HMEGF92	520304	198	AR060:7, AR055:7, AR039:6, AR282:6, AR223:5, AR196:5, AR089:5, AR104:5, AR269:5, AR176:5, AR161:5, AR162:5, AR182:5, AR240:5, AR163:5, AR096:5, AR231:5, AR165:5, AR299:5, AR235:5, AR207:5, AR309:5, AR204:5, AR313:4, AR243:4, AR181:4, AR246:4, AR316:4, AR164:4, AR166:4, AR300:4, AR277:4, AR183:4, AR170:4, AR228:4, AR185:4, AR229:4, AR255:4, AR274:4, AR221:4, AR266:4, AR283:4, AR247:4, AR290:4, AR236:4, AR261:4, AR294:4, AR267:3, AR192:3, AR270:3, AR178:3, AR175:3, AR169:3, AR234:3, AR179:3, AR275:3, AR262:3, AR252:3, AR199:3, AR197:3, AR219:3, AR253:3, AR233:3, AR061:3, AR264:3, AR271:3, AR180:3, AR173:3, AR263:3, AR295:3, AR193:3, AR177:3, AR288:3, AR237:3, AR257:3, AR268:3, AR195:3, AR174:3, AR286:3, AR218:3, AR191:3, AR239:3, AR171:3, AR203:3, AR250:3, AR285:3, AR287:3, AR188:3, AR216:3, AR297:3, AR296:3, AR189:3, AR201:3, AR214:2, AR226:2, AR291:2, AR293:2, AR232:2, AR222:2, AR200:2, AR190:2, AR258:2, AR168:2, AR272:2, AR312:2, AR289:2, AR308:2, AR260:2, AR230:2, AR272:1, AR210:1, AR311:1, AR242:1, AR256:1, AR033:1, L0757:3, L0662:2, H0686:1, S0444:1, H0266:1, L0055:1, L0763:1, L0800:1, L0764:1, L0768:1, L0805:1, L0653:1, L0666:1, H0690:1, H0672:1, L0751:1, L0777:1 and L0758:1.
188	HMEGF92	520304	198	AR233:16, AR178:13, AR176:13, AR261:11, AR061:11, AR257:11, AR104:11, AR228:10, AR182:10, AR196:10, AR238:10, AR299:9, AR236:9, AR293:8, AR239:8, AR190:8, AR231:8, AR288:8, AR232:8, AR291:8, AR161:8, AR229:8, AR162:8, AR175:8, AR163:7, AR258:7, AR269:7, AR185:7, AR266:7, AR033:7, AR174:7, AR164:6, AR200:6, AR191:6, AR300:6, AR250:6, AR237:6, AR234:6, AR267:6, AR287:6, AR166:6, AR165:5, AR294:5, AR203:5, AR286:5, AR268:5, AR262:5, AR055:5, AR247:5, AR226:5, AR285:5, AR179:5, AR295:5, AR089:5, AR230:5, AR216:5, AR316:5, AR183:5, AR252:5, AR297:5, AR181:5, AR060:5, AR271:5, AR168:4, AR172:4, AR193:4, AR240:4, AR264:4, AR227:4, AR180:4,

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189	HMSDL37	973996	199	AR169:5, AR282:3, AR170:3, AR225:2, AR257:2, AR224:2, AR205:2, AR171:2, AR294:2, AR217:1, AR309:1, AR168:1, AR261:1, AR173:1, AR163:1, AR222:1, AR178:1, L0517:2, S0050:1, H0014:1, H0510:1, H0040:1, H0264:1, S0002:1, S0374:1 and L0758:1.
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	HMSDL37	904241	438	
	HMSDL37	750927	439	
190	HMSFI26	560229	200	AR313:11, AR039:11, AR089:8, AR096:8, AR218:8, AR176:7, AR162:7, AR219:7, AR163:7, AR161:7, AR299:6, AR165:6, AR300:6, AR221:6, AR180:6, AR060:6, AR164:6, AR166:6, AR207:6, AR197:6, AR178:6, AR182:6, AR175:6, AR316:6, AR181:6, AR173:6, AR055:6, AR104:5, AR266:5, AR247:5, AR270:5, AR204:5, AR229:5, AR185:5, AR240:5, AR183:5, AR312:5, AR177:5, AR309:5, AR196:4, AR257:4, AR297:4, AR263:4, AR243:4, AR277:4, AR193:4, AR293:4, AR225:4, AR269:4, AR264:4, AR179:4, AR275:4, AR282:4, AR226:4, AR261:4, AR205:4, AR242:4, AR268:4, AR294:4, AR291:4, AR233:4, AR267:4, AR262:4, AR296:4, AR238:3, AR234:3, AR228:3, AR289:3, AR174:3, AR199:3, AR237:3, AR231:3, AR271:3, AR195:3, AR258:3, AR236:3, AR245:3, AR198:3, AR215:3, AR283:3, AR227:3, AR239:3, AR212:3, AR203:3, AR170:3, AR246:3, AR286:3, AR290:3, AR285:3, AR230:3, AR295:3, AR053:3, AR201:3, AR191:3, AR255:2, AR308:2, AR272:2, AR168:2, AR033:2, AR287:2, AR217:2, AR188:2, AR222:2, AR200:2, AR061:2, AR232:2, AR189:2, AR216:2, AR288:2, AR213:2, AR274:2, AR311:2, AR171:2, AR260:2, AR190:2, AR224:2, AR210:1, AR169:1, S0002:1
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193	HMSHS36	1127691	203	AR055:34, AR060:32, AR089:16, AR104:16, AR283:14, AR299:13, AR172:12, AR039:12, AR096:11, AR185:11, AR282:10, AR277:10, AR316:9, AR300:9, AR161:7, AR162:7, AR253:7, AR163:7, AR171:7, AR236:7, AR250:6, AR312:6, AR168:6, AR235:6, AR169:6, AR264:5, AR274:5, AR195:5, AR240:5, AR197:5, AR291:5, AR218:5, AR254:5, AR313:5, AR053:5, AR246:4, AR193:4, AR275:4, AR295:4, AR308:4, AR285:4, AR272:4, AR198:4, AR271:4, AR212:4, AR170:4, AR191:4, AR311:4, AR201:4, AR252:4, AR269:4, AR181:4, AR225:4, AR309:4, AR204:3, AR286:3, AR033:3, AR178:3, AR266:3, AR222:3, AR165:3, AR175:3, AR257:3, AR180:3, AR268:3, AR221:3, AR243:3, AR196:3, AR219:3, AR176:3, AR182:3, AR189:3, AR190:3, AR247:3, AR261:3, AR293:3, AR188:3, AR287:3, AR173:3, AR297:3, AR258:3, AR199:3, AR177:3, AR183:3, AR223:3, AR262:3, AR289:3, AR174:3, AR179:3, AR232:3, AR228:3, AR224:3, AR288:2, AR294:2, AR290:2, AR233:2, AR267:2, AR255:2, AR210:2, AR270:2, AR229:2, AR296:2, AR213:2, AR231:2, AR238:2, AR164:2, AR200:2, AR166:2, AR239:2, AR226:2, AR237:2, AR211:2, AR217:2, AR263:2, AR203:2, AR256:2, AR227:2, AR061:2, AR260:2, AR205:2, AR234:1, AR215:1, AR216:1 S0002:1
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208	HNGDG40	532617	218	AR192:7, AR169:4, AR188:4, AR180:3, AR253:3, AR274:3, AR230:3, AR176:2, AR171:2, AR224:2, AR252:2, AR207:2, AR257:2, AR282:2, AR168:2, AR172:2, AR277:2, AR177:2, AR297:2, AR266:2, AR243:2, AR237:2, AR233:1, AR161:1, AR300:1, AR228:1, AR175:1, AR195:1, AR162:1, AR163:1, AR239:1, AR285:1, AR311:1, AR269:1, AR181:1, AR231:1, AR166:1, AR215:1, AR291:1, AR255:1 S0052:1
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216	HNGOM56	836064	226		AR039:15, AR313:14, AR089:11, AR161:10, AR162:10, AR165:10, AR096:10, AR166:9, AR163:9, AR164:9, AR299:9, AR242:8, AR300:8, AR277:8, AR185:7, AR192:7, AR060:7, AR178:7, AR316:7, AR282:7, AR180:6, AR055:6, AR104:6, AR181:6, AR176:6, AR309:6, AR173:6, AR053:6, AR196:6, AR179:6, AR183:6, AR197:6, AR175:6, AR229:6, AR240:6, AR182:6, AR174:5, AR247:5, AR264:5, AR198:5, AR245:5, AR177:5, AR233:5, AR262:5, AR275:5, AR204:5, AR269:5, AR261:5, AR243:5, AR218:5, AR226:5, AR271:4, AR239:4, AR171:4, AR238:4, AR228:4, AR236:4, AR246:4, AR193:4, AR237:4, AR257:4, AR212:4, AR283:4, AR234:4, AR293:4, AR217:4, AR272:4, AR221:4, AR312:4, AR268:4, AR270:4, AR258:4, AR263:4, AR219:4, AR267:4, AR266:4, AR308:4, AR170:4, AR199:4, AR231:4, AR201:4, AR200:4, AR191:4, AR195:3, AR230:3, AR252:3, AR291:3, AR203:3, AR253:3, AR274:3, AR188:3, AR205:3, AR189:3, AR296:3, AR061:3, AR294:3, AR297:3, AR227:3, AR235:3, AR215:3, AR311:3, AR232:3, AR289:3, AR288:3, AR255:3, AR213:3, AR287:3, AR295:3, AR286:2, AR033:2, AR250:2, AR285:2, AR216:2, AR222:2, AR260:2, AR290:2, AR214:2, AR256:2, AR169:2, AR168:2, AR224:2, AR190:2, AR210:2, AR211:1, AR172:1, AR223:1 S0428:2 and L0368:1
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228	HNTNI01	1352285	238	AR207:15, AR263:12, AR169:11, AR311:11, AR212:10, AR198:10, AR264:10, AR235:10, AR252:9, AR168:9, AR223:9, AR224:9, AR089:9, AR053:8, AR215:8, AR172:8, AR161:8, AR162:8, AR214:8, AR222:8, AR163:8, AR309:8, AR165:8, AR205:8, AR192:8, AR164:8, AR170:8, AR221:7, AR166:7, AR216:7, AR242:7, AR282:7, AR308:7, AR195:7, AR171:7,

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252	HPMFP40	638165	262		AR282:6, AR180:3, AR197:3, AR242:3, AR161:3, AR245:3, AR163:3, AR162:2, AR263:2, AR230:2, AR240:2, AR224:2, AR176:2, AR235:2, AR177:2, AR283:1, AR223:1, AR299:1, AR178:1, AR272:1, AR277:1, AR171:1, AR089:1 H0031:6
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261	HRDFD27	567004	271		AR104:15, AR039:9, AR313:8, AR096:7, AR089:7, AR235:7, AR060:7, AR185:6, AR218:6, AR055:6, AR180:6, AR161:6, AR162:6, AR163:6, AR226:6, AR219:6, AR033:6, AR299:6, AR173:5, AR165:5, AR164:5, AR166:5, AR196:5, AR300:5, AR316:4, AR257:4, AR309:4, AR171:4, AR240:4, AR176:4, AR181:4, AR179:4, AR214:4, AR212:4, AR124:4, AR183:4, AR269:4, AR178:4, AR237:4, AR191:4, AR275:4, AR282:4, AR262:4, AR239:4, AR277:4, AR182:4, AR264:3, AR236:3, AR247:3, AR229:3, AR174:3, AR274:3, AR268:3, AR234:3, AR233:3, AR238:3, AR258:3, AR216:3, AR225:3, AR200:3, AR254:3, AR231:3, AR255:3, AR228:3, AR211:3, AR267:3, AR293:3, AR203:3, AR285:3, AR177:3, AR296:3, AR283:3, AR169:3, AR294:3, AR266:3, AR190:3, AR290:3, AR291:3, AR189:3, AR297:2, AR286:2, AR217:2, AR288:2, AR053:2, AR289:2, AR222:2, AR188:2, AR287:2, AR205:2, AR263:2, AR210:2, AR227:2, AR232:2, AR312:2, AR168:2, AR204:2, AR230:2, AR261:2, AR308:2, AR199:2, AR270:2, AR272:1, AR295:1, AR260:1, AR061:1, AR195:1, AR215:1, AR256:1, AR193:1, H0305:2, H0124:2 and L0749:1.
262	HRGBL78	910133	272		AR052:15, AR213:14, AR053:10, AR244:8, AR096:7, AR184:6, AR215:6, AR310:5, AR251:5, AR241:5, AR221:4, AR273:4, AR170:4, AR270:3, AR206:3, AR249:3, AR186:3, AR284:3, AR312:3, AR290:3, AR292:3, AR168:3, AR039:3,

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263	HROAJ03	567005	273	AR264:13, AR309:13, AR308:10, AR272:10, AR269:10, AR180:9, AR183:9, AR291:8, AR263:8, AR270:8, AR261:8, AR165:8, AR173:8, AR268:8, AR290:8, AR164:8, AR176:7, AR210:7, AR166:7, AR311:7, AR181:7, AR179:7, AR313:7, AR177:7, AR295:7, AR199:7, AR182:7, AR216:6, AR188:6, AR178:6, AR175:6, AR161:6, AR162:6, AR285:6, AR267:6, AR163:6, AR236:6, AR196:6, AR297:6, AR235:6, AR190:6, AR266:6, AR217:6, AR228:6, AR247:6, AR255:6, AR231:5, AR174:5, AR096:5, AR189:5, AR293:5, AR229:5, AR296:5, AR225:5, AR221:5, AR211:5, AR240:5, AR218:5, AR288:5, AR219:5, AR257:5, AR053:5, AR238:5, AR224:5, AR239:5, AR170:4, AR262:4, AR233:4, AR287:4, AR215:4, AR282:4, AR289:4, AR237:4, AR300:4, AR168:4, AR171:4, AR200:4, AR222:4, AR316:4, AR214:4, AR256:4, AR294:4, AR191:4, AR185:4, AR172:4, AR169:4, AR286:4, AR252:4, AR212:3, AR234:3, AR061:3, AR299:3, AR230:3, AR203:3, AR226:3, AR223:3, AR060:3, AR274:3, AR275:3, AR232:3, AR055:3, AR258:3, AR193:3, AR089:3, AR260:3, AR277:3, AR227:2, AR033:2, AR207:2, AR243:2, AR253:2, AR271:2, AR039:2, AR246:2, AR192:2, AR205:2, AR250:2, AR245:2, AR283:1, AR197:1, AR104:1, AR195:1, AR201:1, H0646:2, L0783:2, L0751:2, H0222:1, L3645:1, H0409:1, H0559:1, H0590:1, H0581:1, L0471:1, H0622:1, H0316:1, H0623:1, L0788:1, H0689:1, S0328:1, S0390:1, L0777:1, L0731:1 and L0462:1.
264	HROAJ39	1181699	274	AR055:8, AR060:6, AR218:6, AR300:5, AR316:4, AR089:4, AR240:4, AR282:3, AR185:3, AR104:3, AR299:3, AR313:3, AR096:3, AR283:3, AR039:2, AR219:2, AR277:2, H0316:1, L3905:1, L0565:1, L0438:1, H0521:1, L0439:1 and L0594:1.
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265	HROBD68	827306	275	AR196:23, AR161:12, AR162:12, AR163:11, AR313:11, AR242:9, AR165:8, AR164:8, AR166:8, AR191:8, AR089:8, AR275:8, AR096:7, AR181:7, AR175:7, AR053:7, AR299:6, AR173:6, AR264:6, AR060:6, AR258:5, AR236:5, AR257:5, AR198:5, AR312:5, AR177:5, AR263:5, AR185:5, AR180:5, AR274:5, AR293:5, AR174:5, AR179:5, AR200:5, AR270:5, AR225:5, AR250:5, AR269:5, AR178:5, AR300:5, AR282:5, AR195:5, AR199:5, AR247:5, AR309:5, AR188:4, AR316:4, AR203:4, AR183:4, AR189:4, AR238:4, AR287:4, AR285:4, AR294:4, AR308:4, AR104:4, AR240:4, AR226:4, AR261:4, AR182:4, AR311:4, AR229:4, AR277:4, AR271:4, AR295:4, AR207:4, AR255:4, AR262:4, AR176:4, AR235:4, AR268:4, AR291:4, AR297:4, AR213:3, AR233:3, AR231:3, AR296:3, AR286:3, AR288:3, AR212:3, AR290:3, AR234:3, AR237:3,

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267	HSA VH65	545459	277	AR089:10, AR240:9, AR060:9, AR055:9, AR313:9, AR277:8, AR185:7, AR300:6, AR282:6, AR299:6, AR104:6, AR316:5, AR218:5, AR219:5, AR283:4, AR096:4, AR039:4, S0114:2, H0686:1, L2255:1, L0769:1, L0644:1, L0662:1, L0774:1, L0666:1, H0659:1, L0750:1 and S0436:1.
268	HSA WD74	460527	278	AR039:35, AR313:32, AR096:24, AR089:22, AR299:17, AR300:16, AR104:13, AR185:13, AR277:13, AR316:13, AR060:13, AR173:12, AR165:12, AR166:12, AR240:11, AR164:11, AR218:11, AR162:11, AR161:11, AR163:10, AR229:10, AR178:9, AR242:9, AR175:9, AR262:9, AR247:9, AR183:9, AR258:8, AR275:8, AR055:8, AR257:8, AR180:7, AR293:7, AR282:7, AR181:7, AR196:7, AR204:7, AR312:7, AR219:7, AR193:7, AR191:6, AR238:6, AR176:6, AR198:6, AR269:6, AR235:6, AR199:6, AR179:6, AR270:6, AR233:6, AR182:6, AR297:6, AR234:6, AR254:6, AR177:6, AR296:6, AR174:6, AR236:5, AR203:5, AR226:5, AR283:5, AR266:5, AR285:5, AR268:5, AR245:5, AR255:5, AR188:5, AR309:5, AR267:5, AR053:5, AR287:5, AR294:5, AR213:5, AR274:5, AR286:5, AR200:5, AR231:4, AR308:4, AR033:4, AR288:4, AR189:4, AR237:4, AR260:4, AR261:4, AR291:4, AR201:4, AR172:4, AR243:4, AR295:4, AR228:4, AR222:4, AR290:4, AR271:4, AR212:4, AR264:4, AR272:3, AR252:3, AR169:3, AR230:3, AR239:3, AR205:3, AR253:3, AR227:3, AR197:3, AR289:3, AR225:3, AR207:3, AR190:3, AR217:2, AR214:2, AR061:2, AR216:2, AR256:2, AR232:2, AR263:2, AR195:2, AR223:2, AR221:2, AR246:2, AR311:1, AR192:1, AR168:1, AR210:1, AR211:1, H0068:3, S0114:2, L0534:2, L0740:2, H0717:1, S0134:1, S0442:1, S0354:1, S0476:1, H0333:1, H0009:1, H0560:1, L5565:1 and H0576:1.
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276	HSDSE75	545057	286		AR096:3, AR225:3, AR266:3, AR055:3, AR060:3, AR309:2, AR170:2, AR222:2, AR104:2, AR214:2, AR254:2, AR163:2, AR161:2, AR195:2, AR282:2, AR089:1, AR224:1, AR283:1, AR275:1, AR228:1, AR162:1, AR300:1, AR272:1, AR216:1, AR240:1, AR290:1, AR175:1, AR185:1, AR201:1, AR193:1, AR200:1, AR164:1, AR166:1, AR316:1, AR168:1, AR230:1, AR165:1, AR218:1, H0646:2, L0783:2, L0751:2, H0222:1, L3645:1, H0409:1, H0559:1, H0590:1, H0581:1, L0471:1, H0622:1, H0316:1, H0623:1, L0788:1, H0689:1, S0328:1, S0390:1, L0777:1, L0731:1 and L0462:1.
277	HSDZR57	651375	287		AR172:3, AR264:3, AR235:3, AR207:2, AR215:2, AR225:2, AR271:2, AR192:2, AR180:2, AR309:2, AR216:2, AR270:2, AR165:2, AR274:1, AR164:1, AR166:1, AR222:1, AR257:1, AR277:1, AR286:1, L0769:4, L0803:3, H0547:3, H0484:2, S0410:2, H0644:2, H0617:2, H0413:2, L0751:2, H0556:1, H0650:1, S0420:1, S0354:1, S0360:1, S0222:1, H0455:1, H0559:1, H0575:1, H0052:1, H0545:1, L0763:1, L0800:1, L0648:1, L0662:1, L0768:1, L0794:1, L0804:1, L0809:1, L0789:1, H0699:1, H0690:1, H0660:1, S0328:1, L0740:1, L0750:1 and H0422:1.
278	HSIDJ81	589447	288		AR313:41, AR039:35, AR096:26, AR173:25, AR299:21, AR258:20, AR180:20, AR185:19, AR089:18, AR262:18, AR161:18, AR162:18, AR179:18, AR269:17, AR240:17, AR300:17, AR175:17, AR163:17, AR257:17, AR165:17, AR191:17, AR229:17, AR196:16, AR164:16, AR247:16, AR316:16, AR166:15, AR218:15, AR183:15, AR277:15, AR178:14, AR181:14, AR199:14, AR182:13, AR234:13, AR270:13, AR293:13, AR236:13, AR174:13, AR233:12, AR200:12, AR238:12, AR268:11, AR189:11, AR260:11, AR285:11, AR060:11, AR219:11, AR297:11, AR294:10, AR104:10, AR203:10, AR226:10, AR188:10, AR287:10, AR255:10, AR296:10, AR176:10, AR177:10, AR267:10, AR282:9, AR230:9, AR275:9, AR290:8, AR264:8, AR231:8, AR261:8, AR237:8, AR242:8, AR190:8, AR192:8, AR288:7, AR274:7, AR286:7, AR055:7, AR291:7, AR228:7, AR239:7, AR235:7, AR033:7, AR295:6, AR227:6, AR263:6, AR266:6, AR197:5, AR211:5, AR308:5, AR053:5, AR256:5, AR250:5, AR232:4, AR210:4, AR272:4, AR213:4, AR283:4, AR271:4, AR289:4, AR312:4, AR252:4, AR193:4, AR212:3, AR223:3, AR246:3, AR311:3, AR225:3, AR061:3, AR169:3, AR205:3, AR198:3, AR170:2, AR215:2, AR201:2, AR207:2, AR243:2, AR309:2, AR224:2, AR171:2, AR168:2, AR217:2, AR216:2, AR172:2, AR195:1, H0036:1 and L0744:1.
279	HSKDA27	1352409	289		AR039:106, AR104:103, AR055:103, AR240:102, AR060:87, AR096:84, AR282:77, AR283:67, AR300:66, AR316:57, AR185:48, AR219:45, AR218:44, AR089:40, AR299:36, AR277:34, AR313:31, S0212:13, S0126:12, L0777:11, S0027:10, S0028:10, S0250:7, H0717:6, L0662:6, L0747:6, S0360:5, S0022:5, S0206:5, L0779:5, S0194:5, L0659:4, L0751:4, L0731:4, L0758:4, H0713:3, H0716:3, S0444:3, H0599:3, L0163:3, S0210:3, L0807:3, S0390:3, S0037:3, S3014:3, L0740:3, S0192:3, H0295:2, H0486:2, H0706:2, S0309:2, H0266:2, H0373:2, H0266:2, H0039:2, H0038:2, L0598:2, L3872:2, H0689:2, L0757:2, L0759:2, S0011:2, S0040:1, L2906:1, H0298:1, H0661:1, H0663:1, H0662:1, S0420:1, S0356:1, S0442:1, S0408:1, L2338:1, S0046:1, H0411:1, H0550:1, H0586:1, H0587:1, H0333:1, T0040:1, T0060:1, H0427:1, H0251:1, H0150:1, H0050:1, H0014:1, H0188:1, S0214:1, H0428:1, H0622:1, T0006:1, H0553:1, H0628:1, H0124:1, H0087:1, H0551:1, T0067:1, H0413:1, T0069:1, S0440:1, L0762:1, L0763:1, L0770:1, L0769:1, L0637:1, L0773:1, L0768:1, L0794:1, L0386:1, L0774:1, L0775:1, L0805:1, L0761:1, L0655:1, L0783:1, L0519:1, L0367:1, L0790:1, L0666:1, L0663:1, L2263:1, L0565:1, S0148:1, H0726:1, H0724:1, L0438:1, H0519:1, S0152:1, S0454:1, H0521:1, H0696:1, S3012:1, S0124:1, L0439:1, L0750:1, H0595:1, S0436:1, H0668:1, H0667:1, S0242:1, S0276:1

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281	HSLCQ82	1352226	291	AR055:7, AR060:6, AR104:6, AR089:6, AR283:6, AR096:6, AR161:5, AR162:5, AR282:5, AR163:5, AR039:5, AR218:5, AR316:5, AR219:5, AR269:4, AR277:4, AR176:4, AR309:4, AR300:4, AR164:4, AR165:4, AR275:4, AR240:4, AR266:4, AR299:4, AR274:4, AR235:4, AR272:4, AR166:4, AR183:4, AR173:3, AR177:3, AR250:3, AR185:3, AR225:3, AR214:3, AR178:3, AR257:3, AR267:3, AR236:3, AR182:3, AR270:3, AR313:3, AR181:3, AR221:3, AR175:3, AR191:3, AR239:3, AR291:3, AR190:3, AR228:3, AR229:3, AR189:3, AR180:3, AR296:3, AR255:3, AR171:3, AR172:3, AR287:3, AR243:3, AR233:3, AR268:2, AR261:2, AR262:2, AR238:2, AR196:2, AR237:2, AR231:2, AR264:2, AR210:2, AR293:2, AR224:2, AR288:2, AR289:2, AR290:2, AR295:2, AR174:2, AR230:2, AR179:2, AR188:2, AR200:2, AR285:2, AR246:2, AR294:2,

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282	HSNAD72	467397	292	AR170:5, AR169:4, AR180:4, AR313:4, AR221:3, AR178:3, AR223:3, AR245:3, AR192:3, AR235:2, AR204:2, AR182:2, AR299:2, AR216:2, AR291:2, AR274:2, AR171:2, AR214:2, AR217:2, AR193:2, AR266:1, AR308:1, AR293:1, AR257:1, AR247:1, AR232:1, AR225:1, AR283:1, AR210:1, AR282:1 H0163:2
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284	HSQFP66	460537	294	AR197:9, AR271:8, AR176:7, AR162:7, AR161:7, AR201:7, AR163:7, AR192:6, AR204:6, AR207:6, AR266:6, AR267:6, AR228:6, AR229:6, AR169:6, AR177:6, AR237:6, AR198:6, AR233:5, AR245:5, AR181:5, AR193:5, AR250:5, AR243:5, AR053:5, AR269:5, AR239:5, AR309:5, AR089:5, AR180:5, AR264:5, AR165:5, AR214:5, AR182:4, AR060:4, AR224:4, AR061:4, AR268:4, AR261:4, AR178:4, AR166:4, AR230:4, AR257:4, AR226:4, AR183:4, AR164:4, AR270:4, AR275:4, AR231:4, AR236:4, AR096:4, AR179:4, AR246:4, AR289:4, AR039:4, AR055:4, AR293:4, AR196:4, AR175:4, AR316:4, AR272:4, AR234:4, AR168:4, AR225:4, AR286:4, AR247:4, AR312:4, AR212:4, AR255:4, AR296:4, AR242:4, AR294:3, AR300:3, AR290:3, AR185:3, AR205:3, AR291:3, AR238:3, AR262:3, AR227:3, AR295:3, AR287:3, AR288:3, AR174:3, AR297:3, AR216:3, AR311:3, AR277:3, AR170:3, AR191:3, AR285:3, AR188:3, AR213:3, AR215:3, AR313:3, AR217:3, AR308:3, AR232:3, AR203:3, AR195:3, AR282:3, AR173:2, AR033:2, AR172:2, AR189:2, AR171:2, AR274:2, AR223:2, AR190:2, AR299:2, AR104:2, AR211:2, AR258:2, AR200:2, AR283:2, AR263:2, AR256:2, AR221:2, AR199:2, AR240:2, AR222:2, AR210:2, AR253:1, AR254:1, AR260:1, AR219:1, AR218:1 S0007:1, H0555:1 and S0026:1.
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287	HSSGD52	1352343	297	AR225:17, AR223:16, AR215:16, AR214:14, AR224:13, AR170:13, AR171:12, AR168:12, AR172:12, AR221:12, AR246:11, AR222:11, AR216:11, AR269:11, AR169:11, AR171:10, AR183:9, AR268:9, AR165:8, AR290:8, AR161:8, AR164:8, AR162:8, AR270:8, AR163:8, AR166:8, AR291:7, AR244:7, AR298:7, AR267:7, AR182:7, AR180:7, AR266:7, AR176:7, AR186:7, AR173:7, AR052:6, AR231:6, AR271:6, AR207:6, AR292:6, AR250:6, AR228:6, AR282:6, AR238:6, AR206:6, AR061:6, AR273:6, AR296:6, AR275:6, AR243:6, AR181:6, AR247:5, AR289:5, AR285:5, AR200:5, AR240:5, AR210:5, AR053:5, AR249:5, AR314:5, AR202:5, AR218:5, AR219:5, AR235:5, AR194:5, AR178:5, AR197:5, AR089:5, AR189:5, AR177:5, AR211:5, AR239:5, AR175:5, AR237:5, AR198:5, AR293:5, AR201:5, AR190:5, AR188:5, AR295:5, AR251:5, AR255:5, AR245:4, AR280:4, AR254:4, AR185:4, AR196:4, AR060:4, AR272:4, AR315:4, AR213:4, AR312:4, AR300:4, AR193:4, AR309:4, AR316:4, AR257:4, AR179:4, AR232:4, AR311:4, AR234:4, AR233:4, AR236:4, AR264:4, AR286:4, AR299:4, AR294:4, AR204:4, AR033:4, AR229:4, AR039:4, AR226:4, AR191:4, AR205:4, AR184:3, AR288:3, AR274:3, AR096:3, AR261:3, AR287:3, AR203:3, AR297:3, AR284:3, AR174:3, AR212:3, AR277:3, AR055:3, AR313:3, AR192:3, AR104:3, AR195:3, AR265:3, AR281:3, AR230:3, AR263:3, AR262:3, AR283:3, AR256:2, AR199:2, AR227:2, AR308:2, AR310:2, AR259:2, AR253:2, AR258:2, AR260:2, AR242:2, L0771:6, L0743:6, S0002:5, L0770:5, L0803:5, L0805:5, L0659:5, L0666:5, L0751:5, H0585:4, L0809:4, L0439:4, L0754:4, L0758:4, H0586:3, H0013:3, H0551:3, S0426:3, L0769:3, L0664:3, L0665:3, L0779:3, L0780:3, L0752:3, L0757:3, H0265:2, S0376:2, L2799:2, S0278:2, H0392:2, H0409:2, L3816:2, H0644:2, H0135:2, H0494:2, S0142:2, L0773:2, L0789:2, L0790:2, L0663:2, H0519:2, H0658:2, H0670:2, H0521:2, L0744:2, L0740:2, L0749:2, L0731:2, S0276:2, L3618:2, H0624:1, H0556:1, H0141:1, H0222:1, S0342:1, H0295:1, T0049:1, L2910:1, S0212:1, S0418:1, S0442:1, S0358:1, S0444:1, H0580:1, S0007:1, S0045:1, S0476:1, H0771:1, L3104:1, L0717:1, H0549:1, H0370:1, H0486:1, L2504:1, L2570:1, H0250:1, S0010:1, S0346:1, H0581:1, S0049:1, H0263:1, H0046:1, H0009:1, H0123:1, H0266:1, H0687:1, T0023:1, L0483:1, H0030:1, S0366:1, H0038:1, H0634:1, T0067:1, H0413:1, H0334:1, L0065:1, S0440:1, S0144:1, H0773:1, L0763:1, L3905:1, L0761:1, L0372:1, L0646:1, L0800:1, L0643:1, L0764:1, L0648:1, L0662:1, L0794:1, L0804:1, L0774:1, L0775:1, L0806:1, L0776:1, L0655:1, L0527:1, L0782:1, L0791:1, L0793:1, S0052:1, L2257:1, L2259:1, L2654:1, L0565:1, S0148:1, H0593:1, S0126:1, H0682:1, H0684:1, H0435:1, S0328:1, S0380:1, H0710:1, L3834:1, H0696:1, S0044:1, S0146:1, S0392:1, H0627:1, L0747:1, L0750:1, L0777:1, L0759:1, S0434:1, S0026:1, H0665:1, H0136:1 and H0542:1.
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	HSSGD52	845666	500	
288	HSSGG82	618535	298	AR285:24, AR295:17, AR291:17, AR297:17, AR287:16, AR296:16, AR261:14, AR236:13, AR262:13, AR263:12, AR235:12, AR260:11, AR294:10, AR253:10, AR288:10, AR293:9, AR264:9, AR311:9, AR257:8, AR309:8, AR191:8, AR189:8, AR308:8, AR254:7, AR258:7, AR161:7, AR162:7, AR312:7, AR213:7, AR163:7, AR255:7, AR218:7, AR246:6, AR250:6, AR175:6, AR286:6, AR174:6, AR212:6, AR190:6, AR245:6, AR060:6, AR096:6, AR188:5, AR197:5, AR252:5, AR313:5, AR269:5, AR196:5, AR165:5, AR274:5, AR256:5, AR282:5, AR219:5, AR316:5, AR272:5, AR089:5, AR164:5, AR177:5, AR270:5, AR166:5, AR199:5, AR178:5, AR173:5, AR289:5, AR182:4, AR195:4, AR271:4, AR243:4, AR171:4, AR266:4, AR183:4, AR231:4, AR181:4, AR176:4, AR185:4, AR275:4, AR240:4, AR180:4, AR179:4, AR238:3, AR192:3, AR225:3, AR268:3, AR104:3, AR205:3, AR201:3, AR193:3, AR169:3, AR237:3, AR290:3, AR033:3, AR226:3, AR229:3, AR200:3, AR239:3, AR247:3, AR198:3, AR277:2, AR232:2, AR267:2, AR204:2, AR211:2, AR234:2, AR299:2, AR283:2, AR300:2, AR210:2, AR207:2, AR203:2, AR053:2, AR228:2, AR214:2, AR168:2, AR222:2, AR221:2,

289	HSUBW09	413246		AR224:2, AR227:2, AR061:2, AR216:1, AR230:1, AR215:1 AR186:66, AR202:60, AR259:59, AR206:59, AR292:58, AR061:56, AR052:56, AR283:51, AR227:49, AR251:49, AR244:48, AR249:47, AR281:45, AR310:44, AR280:44, AR033:43, AR055:42, AR194:42, AR192:41, AR241:41, AR273:40, AR300:40, AR314:38, AR185:38, AR248:38, AR315:37, AR104:36, AR232:36, AR299:35, AR233:34, AR229:34, AR237:34, AR275:34, AR184:33, AR060:32, AR265:31, AR039:31, AR177:29, AR198:28, AR053:28, AR294:28, AR282:27, AR243:26, AR256:26, AR309:25, AR313:25, AR231:25, AR246:25, AR295:25, AR298:24, AR089:24, AR219:24, AR096:24, AR274:24, AR312:23, AR204:23, AR293:22, AR284:22, AR267:21, AR205:21, AR316:21, AR271:21, AR247:20, AR226:20, AR238:19, AR213:19, AR175:19, AR234:18, AR218:17, AR253:16, AR289:16, AR277:14, AR258:14, AR179:13, AR266:12, AR286:12, AR263:12, AR285:12, AR296:12, AR183:11, AR291:11, AR270:10, AR240:9, AR182:9, AR268:8, AR269:8, AR290:8, AR163:5, AR287:4, AR176:3, AR250:3, AR215:3, AR225:2, AR201:2, AR172:2, AR224:2, AR221:2, AR272:2, AR264:2, AR214:1, AR165:1, AR195:1, AR193:1, AR257:1, AR216:1, L0766:5, L0749:3, S0134:2, L0770:2, L0794:2, L0809:2, L0790:2, H0556:1, H0735:1, L0622:1, H0457:1, H0561:1, L0662:1, L0804:1, L5622:1, H0436:1, L0779:1, L0731:1, L0758:1, H0136:1 and H0506:1.
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292	HTAEE28	1018291	302	AR170:5, AR169:4, AR221:3, AR250:3, AR217:3, AR242:2, AR263:2, AR171:2, AR193:2, AR245:2, AR201:2, AR172:2, AR183:2, AR300:2, AR216:1, AR267:1, AR309:1, AR257:1, AR269:1, AR224:1, AR168:1, AR161:1, AR215:1, AR311:1 H0250:3, H0069:2, L0771:2, S0404:2, H0650:1, H0656:1, H0486:1, H0013:1, H0318:1, S0422:1, L0644:1, L0768:1, L0794:1, L0804:1, L0655:1, L0789:1, L0664:1, H0436:1 and L0758:1.
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	HTAEE28	864120	502	

293	HTECC05	1352365	303	<p>AR176:5, AR169:3, AR224:3, AR180:3, AR291:3, AR225:3, AR238:3, AR267:3, AR261:2, AR245:2, AR289:2, AR270:2, AR257:2, AR175:2, AR269:2, AR168:2, AR181:2, AR228:2, AR243:2, AR309:2, AR285:2, AR295:2, AR217:2, AR230:2, AR293:2, AR239:2, AR171:2, AR177:2, AR294:2, AR236:2, AR313:1, AR296:1, AR231:1, AR290:1, AR190:1, AR227:1, AR179:1, AR246:1, AR312:1, AR287:1, AR247:1, AR271:1, AR266:1, AR178:1, AR250:1, AR061:1, AR182:1, AR268:1, AR233:1, AR196:1, AR262:1, AR234:1, AR272:1, AR162:1, AR277:1, AR096:1 H0617:10, S0410:8, L0758:8, L0769:7, H0038:6, L0439:6, L0750:6, L0752:6, S0360:5, L0775:5, S0406:5, H0150:4, L0157:4, H0620:4, H0087:4, S0440:4, S0344:4, L0763:4, S0328:4, L0747:4, H0224:3, H0484:3, H0402:3, S0049:3, H0708:3, L0773:3, L0805:3, L0809:3, L0519:3, H0670:3, L0748:3, L0731:3, L0757:3, L0581:3, H0295:2, H0341:2, S0444:2, S0222:2, L0622:2, H0253:2, H0309:2, T0115:2, H0544:2, H0545:2, H0081:2, H0012:2, H0673:2, S0036:2, H0616:2, L0770:2, L0774:2, L0518:2, H0725:2, S0374:2, H0696:2, L0588:2, H0543:2, L0615:1, H0160:1, H0225:1, H0713:1, S0624:1, S0430:1, H0656:1, S0116:1, S0212:1, H0483:1, H0306:1, H0638:1, H0125:1, S0420:1, S0358:1, S0408:1, H0637:1, S0476:1, H0640:1, H0411:1, S0278:1, H0441:1, H0461:1, H0298:1, H0333:1, L0623:1, H0486:1, H0427:1, H0156:1, H0599:1, T0082:1, T0048:1, H0318:1, H0581:1, H0196:1, H0597:1, L0738:1, H0530:1, H0242:1, H0024:1, H0373:1, L0163:1, H0275:1, H0188:1, H0284:1, S0003:1, H0428:1, H0213:1, H0405:1, H0181:1, H0182:1, H0606:1, L0055:1, H0163:1, H0063:1, T0067:1, H0100:1, H0560:1, H0561:1, H0647:1, S0142:1, L0598:1, L3904:1, L0761:1, L0772:1, L0764:1, L0767:1, L0768:1, L0766:1, L0649:1, L0803:1, L0375:1, L0806:1, L0776:1, L0517:1, L0526:1, L0783:1, L0789:1, H0144:1, L0438:1, H0689:1, H0690:1, H0682:1, H0683:1, H0435:1, H0659:1, H0648:1, H0521:1, H0522:1, S0141:1, S0027:1, L0755:1, L0759:1, H0445:1, H0343:1, H0595:1, L0608:1, H0136:1, S0276:1, H0542:1, L0600:1 and H0352:1.</p>
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	HTECC05	666743	504	
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295	HTEFU65	543396	305	<p>AR240:15, AR055:12, AR060:7, AR039:6, AR299:6, AR219:6, AR277:5, AR089:5, AR218:5, AR300:5, AR185:5,</p>

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317	HTTBS64	1008159	327		AR282:4, AR252:4, AR269:3, AR171:3, AR170:3, AR264:2, AR176:2, AR291:2, AR311:2, AR225:2, AR277:2, AR168:2, AR270:2, AR172:2, AR262:1, AR271:1, AR055:1, AR272:1, AR299:1, AR257:1, AR313:1 H0040:1
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322	HTXON32	838288	332	AR213:4, AR060:4, AR225:4, AR308:4, AR212:4, AR243:4, AR285:4, AR200:4, AR199:4, AR192:4, AR287:4, AR189:4, AR294:4, AR286:4, AR238:4, AR299:3, AR291:3, AR295:3, AR239:3, AR261:3, AR237:3, AR263:3, AR198:3, AR283:3, AR172:3, AR185:3, AR216:3, AR204:3, AR288:3, AR311:3, AR234:3, AR205:3, AR262:3, AR258:3, AR289:3, AR055:3, AR277:3, AR224:3, AR207:3, AR230:3, AR168:3, AR226:3, AR223:3, AR061:3, AR190:2, AR174:2, AR218:2, AR227:2, AR195:2, AR256:2, AR274:2, AR260:2, AR217:2, AR235:2, AR033:2, AR246:2, AR275:2, AR171:2, AR219:2, AR104:2, AR232:1, AR253:1, AR211:1, AR210:1, AR242:1 L0766:5, H0313:3, H0624:1, H0265:1, H0556:1, S0116:1, H0329:1, H0486:1, H0156:1, H0590:1, H0009:1, S0250:1, H0169:1, S0450:1, S0002:1, L0769:1, L0793:1, L0532:1, L0750:1, L0777:1 and S0424:1.
322	HTXON32	838288	332	AR195:107, AR197:91, AR172:81, AR246:78, AR295:74, AR272:72, AR258:71, AR196:67, AR224:67, AR235:67, AR171:66, AR193:66, AR291:63, AR297:59, AR223:58, AR168:57, AR200:56, AR263:55, AR222:54, AR170:53, AR261:53, AR245:52, AR236:52, AR169:52, AR311:49, AR256:49, AR225:49, AR188:48, AR173:48, AR285:48, AR288:47, AR221:46, AR260:46, AR198:46, AR313:46, AR174:45, AR201:45, AR271:45, AR191:44, AR175:44, AR217:44, AR286:44, AR287:43, AR309:43, AR270:43, AR264:42, AR211:42, AR274:42, AR308:41, AR199:41, AR181:40, AR294:40, AR214:39, AR262:39, AR216:39, AR243:39, AR189:39, AR275:38, AR177:38, AR215:38, AR033:38, AR255:37, AR296:37, AR210:36, AR190:36, AR257:36, AR289:35, AR213:35, AR282:34, AR240:34, AR218:34, AR163:32, AR247:32, AR176:31, AR180:30, AR312:30, AR254:30, AR212:30, AR166:29, AR300:29, AR162:29, AR293:29, AR203:29, AR183:29, AR219:28, AR161:28, AR192:28, AR242:28, AR165:27, AR250:27, AR269:27, AR185:27, AR164:26, AR039:25, AR104:25, AR266:24, AR290:24, AR316:24, AR179:23, AR182:23, AR178:23, AR096:22, AR238:21, AR053:21, AR205:20, AR268:20, AR089:20, AR207:19, AR267:19, AR299:19, AR204:19, AR229:18, AR234:18, AR226:17, AR277:17, AR231:17, AR253:16, AR237:15, AR232:14, AR230:14, AR233:14, AR060:13, AR283:11, AR239:10, AR055:9, AR061:9, AR228:9, AR252:8, AR227:6 H0556:1
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325	HUKAH51	1352424	335	AR039:323, AR104:317, AR055:287, AR060:230, AR185:220, AR089:214, AR300:199, AR282:174, AR240:174, AR316:160, AR096:135, AR277:128, AR299:121, AR283:108, AR219:95, AR218:82, AR313:81, S0410:26, L0777:13, S0444:6, L0439:5, L0731:5, S0358:4, S0440:4, L0766:4, L0748:4, L0758:4, H0661:3, S0442:3, S0408:3, H0393:3, H0574:3, H0038:3, H0616:3, S0438:3, H0509:3, L0794:3, L0438:3, S0406:3, L0779:3, S0360:2, H0050:2, H0510:2, H0266:2, S0003:2, H0032:2, H0040:2, H0634:2, L0764:2, L0655:2, S0374:2, L0588:2, H0624:1, H0171:1, S6024:1, S0134:1, S0001:1, H0742:1, H0730:1, H0722:1, H0411:1, H0331:1, H0485:1, H0486:1, H0575:1, H0204:1, T0115:1, H0150:1, H0014:1, H0083:1, S0214:1, H0615:1, H0169:1, H0124:1, H0598:1, H0059:1, H0646:1, H0529:1, L0772:1, L0648:1, L0649:1, L0803:1, L0774:1, L0805:1, L0809:1, L0791:1, S0052:1, H0144:1, H0659:1, S0328:1, S0330:1, S0146:1, H0478:1, S0026:1 and H0423:1.
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326	HUSXS50	1352367	336	AR253:15, AR270:12, AR184:11, AR268:11, AR226:11, AR182:10, AR096:10, AR060:10, AR248:10, AR219:9, AR269:9, AR313:8, AR238:8, AR290:8, AR284:8, AR218:8, AR240:8, AR232:8, AR296:7, AR104:7, AR265:7, AR285:7, AR299:7, AR251:7, AR298:7, AR249:7, AR316:7, AR039:7, AR231:6, AR237:6, AR267:6, AR286:6, AR234:6, AR033:6, AR179:6, AR292:6, AR247:6, AR089:6, AR233:5, AR229:5, AR294:5, AR227:5, AR185:5, AR183:5, AR291:5, AR300:5, AR295:5, AR280:5, AR289:4, AR266:4, AR175:4, AR282:4, AR310:4, AR177:4, AR293:4, AR055:4, AR315:4, AR241:3, AR309:3, AR314:3, AR312:3, AR053:3, AR061:3, AR277:3, AR186:3, AR213:2, AR052:2, AR274:2, AR258:1, AR259:1, AR283:1, L0748:36, L0747:14, L0731:10, L0439:8, S0116:7, H0031:7, L0766:7, H0521:7, H0305:6, H0616:6, L0659:6, L0759:6, L0591:6, H0265:5, H0556:5, S0474:5, H0038:5, L0740:5, H0657:4, H0581:4, H0050:4, H0641:4, L0770:4, L0776:4, L0665:4, H0144:4, H0547:4, H0436:4, L0754:4, L0752:4, H0543:4, H0013:3, H0251:3, H0199:3, H0040:3, H0634:3, H0551:3, H0623:3, S0344:3, S0210:3, L0662:3, L0774:3, L0666:3, L0663:3, L0438:3, S0031:3, H0542:3, H0422:3, S0040:2, H0656:2, H0580:2, S0476:2, H0550:2, H0592:2, H0618:2, H0421:2, H0024:2, H0510:2, H0328:2, H0622:2, H0644:2, S0036:2, H0163:2, H0591:2, H0059:2, T0041:2, H0560:2, S0440:2, S0002:2, L0369:2, L0638:2, L0761:2, L0764:2, L0649:2, L0803:2, L0805:2, H0539:2, L0745:2, L0749:2, L0756:2, S0436:2, L0588:2, L0604:2, L0362:2, L0361:2, H0136:2, L0615:1, H0686:1, H0255:1, H0664:1, H0589:1, H0638:1, S0420:1, S0356:1, S0376:1, H0722:1, S0468:1, S0045:1, H0393:1, H0640:1, S0300:1, L3388:1, H0351:1, S0278:1, H0549:1, H0431:1, H0392:1, H0409:1, H0642:1, H0574:1, H0559:1, T0039:1, L3655:1, T0109:1, H0069:1, H0635:1, H0253:1, S0010:1, S0346:1, L0040:1, H0123:1, L0471:1, H0047:1, H0197:1, T0003:1, H0015:1, S0051:1, H0267:1, H0179:1, H0687:1, H0290:1, S0250:1, H0039:1, T0006:1, H0674:1, L0456:1, H0068:1, H0376:1, H0063:1, T0067:1, H0264:1, H0413:1, L0564:1, S0438:1, S0144:1, H0529:1, L0769:1, L0646:1, L0800:1, L0767:1, L0768:1, L0794:1, L0650:1,

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	HUSXS50	655372	518		
327	HUVEB53	571200	337		AR053:3, AR171:3, AR224:3, AR180:2, AR168:2, AR207:2, AR165:2, AR282:2, AR217:2, AR299:2, AR234:1, AR277:1, AR296:1, AR295:1, AR164:1, AR261:1, AR166:1, AR204:1, AR225:1, AR257:1, AR283:1, AR269:1, AR183:1 H0171:3, L0754:3, H0431:2, H0196:2, H0546:2, H0623:2, H0539:2, H0696:2, L0744:2, L0748:2, L0749:2, L0758:2, L0759:2, S0398:2, H0624:1, T0002:1, S0040:1, H0341:1, S0360:1, H0580:1, H0587:1, H0574:1, H0486:1, H0036:1, S0665:1, H0123:1, H0014:1, S6028:1, S0214:1, H0553:1, H0032:1, L0455:1, H0598:1, H0038:1, H0616:1, H0056:1, S0386:1, S0112:1, T0042:1, S0344:1, S0422:1, S0002:1, L0775:1, L0806:1, L0805:1, L0776:1, S0152:1, H0704:1, H0555:1, H0436:1, L0439:1, L0751:1, L0752:1, L0731:1, L0588:1, L0592:1, S0026:1, H0543:1 and H0423:1.
328	HWAAD63	838626	338		AR196:17, AR173:14, AR161:14, AR162:14, AR241:14, AR163:14, AR165:13, AR313:12, AR166:12, AR164:12, AR262:12, AR264:11, AR236:11, AR199:10, AR191:10, AR174:9, AR178:9, AR257:9, AR235:9, AR180:9, AR263:8, AR203:8, AR181:8, AR200:8, AR229:8, AR274:7, AR189:7, AR275:7, AR311:7, AR240:7, AR247:7, AR297:7, AR312:7, AR175:7, AR308:7, AR212:7, AR261:7, AR169:7, AR265:7, AR188:7, AR234:6, AR177:6, AR221:6, AR194:6, AR287:6, AR242:6, AR258:6, AR207:6, AR230:6, AR255:6, AR176:6, AR293:6, AR168:6, AR271:6, AR224:6, AR179:6, AR270:6, AR185:6, AR192:6, AR233:5, AR198:5, AR300:5, AR096:5, AR214:5, AR216:5, AR183:5, AR238:5, AR272:5, AR269:5, AR039:5, AR226:5, AR223:5, AR299:5, AR296:5, AR215:5, AR285:5, AR260:5, AR089:5, AR288:5, AR182:4, AR204:4, AR239:4, AR228:4, AR222:4, AR213:4, AR309:4, AR231:4, AR060:4, AR033:4, AR210:4, AR252:4, AR273:4, AR286:4, AR053:4, AR268:4, AR294:4, AR237:4, AR193:4, AR172:4, AR243:4, AR218:4, AR267:4, AR277:4, AR310:4, AR104:3, AR295:3, AR291:3, AR190:3, AR225:3, AR282:3, AR316:3, AR227:3, AR290:3, AR171:3, AR217:3, AR186:3, AR211:3, AR266:3, AR195:3, AR219:3, AR249:3, AR292:3, AR052:3, AR201:3, AR206:2, AR245:2, AR314:2, AR232:2, AR202:2, AR298:2, AR289:2, AR315:2, AR256:2, AR244:2, AR259:2, AR205:2, AR246:2, AR061:1, AR184:1, AR284:1, AR280:1, AR283:1, AR055:1 H0441:1, H0581:1 and H0604:1.
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	HWAAD63	793875	520		
329	HWABY10	768334	339		AR218:148, AR313:134, AR219:132, AR240:123, AR316:100, AR096:88, AR089:84, AR282:67, AR277:66, AR283:61, AR300:59, AR060:58, AR299:57, AR039:54, AR185:47, AR104:32, AR055:30 H0521:8, L0756:6, L0455:5, L0770:5, L0752:5, L0757:5, H0581:4, H0457:4, L0769:4, L0655:4, L0731:4, H0686:3, S0442:3, L0659:3, L0666:3, H0658:3, L0439:3, L0747:3, L0749:3, H0445:3, S0436:3, L0588:3, H0542:3, H0584:2, H0716:2, H0580:2, H0251:2, H0546:2, H0413:2, L3904:2, L5565:2, L0761:2, L0772:2, L0794:2, L0652:2, L0776:2, L0657:2, L5622:2, L0663:2, L0438:2, H0689:2, L0745:2, L0590:2, L0581:2, L0599:2, H0265:1, H0167:1, S0114:1, H0656:1, S0212:1, H0661:1, H0306:1, L0562:1, S0356:1, S0354:1, S0360:1, H0728:1, S0045:1, S0046:1, H0749:1, S0476:1, H0393:1, H0462:1, H0392:1,

330	HWADJ89	799506	340	<p>H0592:1, H0486:1, H0013:1, T0082:1, H0618:1, T0048:1, H0318:1, H0421:1, H0052:1, H0544:1, H0545:1, H0150:1, T0010:1, S6028:1, H0271:1, H0416:1, T0023:1, H0617:1, H0169:1, H0068:1, L0351:1, H0494:1, H0396:1, S0344:1, S0210:1, L0446:1, L0763:1, L3905:1, L5566:1, L0667:1, L0372:1, L0644:1, L0771:1, L0648:1, L0662:1, L0768:1, L0774:1, L0805:1, L0809:1, L5623:1, L0665:1, H0519:1, H0593:1, H0435:1, H0672:1, L0602:1, S0152:1, H0522:1, S0406:1, L0786:1, L0779:1, L0780:1, L0758:1, L0759:1, H0668:1 and H0667:1.</p> <p>AR252:29, AR250:29, AR253:21, AR254:10, AR282:6, AR215:6, AR165:5, AR164:5, AR166:5, AR089:5, AR161:5, AR246:5, AR162:5, AR271:5, AR240:5, AR053:5, AR163:5, AR263:4, AR243:4, AR274:4, AR195:4, AR205:4, AR313:4, AR096:4, AR299:4, AR180:4, AR213:4, AR193:4, AR214:4, AR169:4, AR300:4, AR311:4, AR264:4, AR192:4, AR173:4, AR207:4, AR312:3, AR285:3, AR171:3, AR309:3, AR060:3, AR275:3, AR308:3, AR196:3, AR272:3, AR316:3, AR269:3, AR257:3, AR261:3, AR170:3, AR270:3, AR183:3, AR242:3, AR245:3, AR296:3, AR199:3, AR287:3, AR295:3, AR175:3, AR033:3, AR172:3, AR222:2, AR188:2, AR039:2, AR185:2, AR290:2, AR286:2, AR247:2, AR238:2, AR191:2, AR297:2, AR178:2, AR268:2, AR291:2, AR262:2, AR200:2, AR235:2, AR104:2, AR283:2, AR212:2, AR210:2, AR288:2, AR203:2, AR201:2, AR174:2, AR277:2, AR182:2, AR197:2, AR189:2, AR255:2, AR294:2, AR229:2, AR230:2, AR293:2, AR258:2, AR216:2, AR236:2, AR224:2, AR181:2, AR190:2, AR239:2, AR228:2, AR227:2, AR233:2, AR234:1, AR177:1, AR231:1, AR179:1, AR061:1, AR266:1, AR055:1, AR226:1, AR221:1, AR289:1, AR232:1 H0581:1</p>
331	HWBCB89	1093347	341	<p>AR207:18, AR222:18, AR283:17, AR214:17, AR263:16, AR224:16, AR169:16, AR089:15, AR316:14, AR277:13, AR172:13, AR195:13, AR171:12, AR219:12, AR225:12, AR096:12, AR218:12, AR168:12, AR282:11, AR235:11, AR055:11, AR245:11, AR221:11, AR217:11, AR053:11, AR313:11, AR104:11, AR192:11, AR311:11, AR170:11, AR264:10, AR165:10, AR213:10, AR299:10, AR215:10, AR166:10, AR164:10, AR246:10, AR216:9, AR271:9, AR163:9, AR308:9, AR161:9, AR162:9, AR197:9, AR212:9, AR198:9, AR252:9, AR240:8, AR039:8, AR309:8, AR060:8, AR185:8, AR295:8, AR210:8, AR300:8, AR275:8, AR205:8, AR261:7, AR211:7, AR312:7, AR193:7, AR242:7, AR177:7, AR201:7, AR196:7, AR033:7, AR288:6, AR236:6, AR272:6, AR243:6, AR268:6, AR174:6, AR181:5, AR173:5, AR176:5, AR285:5, AR274:5, AR266:5, AR291:5, AR238:5, AR297:5, AR229:5, AR204:5, AR286:5, AR270:5, AR296:5, AR175:5, AR189:5, AR289:5, AR191:4, AR247:4, AR188:4, AR257:4, AR199:4, AR178:4, AR226:4, AR269:4, AR232:4, AR267:4, AR183:4, AR290:4, AR239:4, AR190:4, AR254:4, AR293:4, AR231:4, AR262:4, AR258:4, AR294:3, AR234:3, AR200:3, AR287:3, AR255:3, AR237:3, AR182:3, AR250:3, AR260:3, AR230:3, AR227:3, AR061:3, AR179:3, AR180:3, AR203:3, AR233:3, AR256:2, AR228:2, AR253:1 L0777:6, L0766:4, H0090:3, L0759:3, H0657:2, S0360:2, H0318:2, L0471:2, H0031:2, L0659:2, L0740:2, L0747:2, L0750:2, L0758:2, H0170:1, H0556:1, H0656:1, H0341:1, S0418:1, H0637:1, H0580:1, H0411:1, H0549:1, H0333:1, H0013:1, H0599:1, H0581:1, H0545:1, H0012:1, S0003:1, H0135:1, H0551:1, H0488:1, H0059:1, H0647:1, L0520:1, L0763:1, L0769:1, L4556:1, L0806:1, L0805:1, L0647:1, L0789:1, L0663:1, H0144:1, S3012:1, L0748:1, L0749:1, L0731:1, L0757:1, H0653:1, H0543:1, H0423:1 and H0352:1.</p>
	HWBCB89	886210	521	
332	HWBFX31	799427	342	<p>AR171:3, AR309:2, AR271:2, AR282:2, AR225:2, AR205:2, AR267:2, AR213:2, AR257:2, AR236:2, AR053:1, AR266:1, AR179:1, AR199:1, AR270:1, AR214:1, AR181:1, AR240:1, AR247:1, AR277:1 L0659:5, L0794:4, L0809:4, L0777:4, H0424:3, L0766:3, L0745:3, H0265:2, H0656:2, H0254:2, H0662:2, S0376:2, H0457:2, H0024:2, L0768:2, H0670:2, H0555:2, L0751:2, L0780:2, H0556:1, H0218:1, H0224:1, H0638:1, S0360:1, H0675:1, S0408:1, H0580:1, H0586:1,</p>

					H0575:1, H0545:1, H0050:1, H0188:1, H0252:1, H0039:1, H0617:1, H0316:1, H0063:1, H0087:1, H0264:1, H0272:1, H0652:1, S0002:1, S0426:1, L0763:1, L0770:1, L0761:1, L0800:1, L0773:1, L0648:1, L0662:1, L0774:1, L0776:1, L0647:1, L0790:1, L0666:1, L0664:1, L0665:1, L0438:1, H0521:1, H0522:1, L0749:1, L0750:1, L0752:1, L0757:1, L0759:1, L0596:1, H0422:1, S0458:1 and H0677:1.
333	HWDH38	1028519	343		AR313:6, AR198:5, AR217:5, AR039:5, AR089:5, AR224:4, AR162:4, AR299:4, AR242:4, AR274:4, AR180:4, AR215:4, AR193:3, AR195:3, AR165:3, AR272:3, AR166:3, AR164:3, AR163:3, AR185:3, AR245:3, AR161:3, AR264:3, AR197:3, AR196:3, AR173:3, AR225:3, AR271:3, AR226:3, AR096:3, AR230:3, AR293:2, AR204:2, AR207:2, AR246:2, AR300:2, AR243:2, AR175:2, AR237:2, AR308:2, AR316:2, AR269:2, AR203:2, AR205:2, AR188:2, AR212:2, AR291:2, AR060:2, AR178:2, AR277:2, AR033:2, AR236:2, AR179:2, AR312:2, AR288:2, AR247:2, AR229:2, AR174:2, AR270:2, AR218:2, AR282:2, AR199:2, AR183:2, AR213:1, AR233:1, AR214:1, AR262:1, AR240:1, AR221:1, AR201:1, AR104:1, AR219:1, AR234:1, AR285:1, AR253:1, AR177:1, AR258:1, AR268:1 H0600:1
	HWDH38	889281	522		
334	HWHGZ51	886212	344		AR283:18, AR089:18, AR316:16, AR282:16, AR060:15, AR277:15, AR104:13, AR202:13, AR246:12, AR241:12, AR281:11, AR194:11, AR240:11, AR055:11, AR096:10, AR299:10, AR039:10, AR219:9, AR206:9, AR218:9, AR205:8, AR313:8, AR315:8, AR185:8, AR243:7, AR204:7, AR300:7, AR265:6, AR280:6, AR192:6, AR263:6, AR244:6, AR271:5, AR198:5, AR266:5, AR247:5, AR289:5, AR284:5, AR285:5, AR314:5, AR295:5, AR273:5, AR296:4, AR291:4, AR310:4, AR213:4, AR182:4, AR232:4, AR269:4, AR183:4, AR275:4, AR294:4, AR267:3, AR033:3, AR177:3, AR312:3, AR268:3, AR298:3, AR270:3, AR229:3, AR286:3, AR184:3, AR309:3, AR238:3, AR175:3, AR053:3, AR227:3, AR234:3, AR274:3, AR052:3, AR290:3, AR231:3, AR186:2, AR293:2, AR237:2, AR251:2, AR226:2, AR292:2, AR248:2, AR256:2, AR233:2, AR259:2, AR258:2, AR253:2, AR061:2, AR179:1 S0132:8, L2522:8, H0264:8, H0586:7, L0747:6, S0476:5, S0330:5, L0755:5, L0751:4, L0581:4, L5623:3, H0188:2, H0031:2, H0494:2, L0776:2, L0809:2, H0696:2, L0731:2, H0556:1, H0295:1, H0177:1, H0638:1, H0370:1, H0592:1, H0587:1, H0486:1, L2539:1, L0021:1, H0081:1, H0271:1, H0181:1, H0617:1, H0380:1, L0653:1, L0659:1, L0783:1, L5622:1, L0789:1, L0791:1, S0328:1, L0752:1, L0601:1 and L3603:1.
335	HWLIH65	793713	345		AR061:97, AR231:60, AR238:60, AR237:58, AR234:57, AR202:53, AR194:53, AR281:48, AR226:44, AR315:42, AR206:39, AR280:38, AR244:37, AR227:35, AR241:31, AR229:31, AR314:30, AR248:26, AR232:25, AR284:23, AR283:22, AR265:22, AR266:21, AR310:20, AR263:19, AR292:19, AR033:18, AR298:17, AR184:17, AR192:17, AR246:17, AR243:17, AR096:17, AR233:15, AR295:15, AR177:15, AR282:15, AR198:13, AR186:13, AR267:13, AR299:13, AR273:12, AR316:12, AR104:12, AR296:12, AR251:12, AR291:12, AR249:12, AR247:12, AR219:12, AR300:12, AR313:12, AR277:12, AR285:11, AR289:11, AR205:11, AR039:11, AR213:11, AR052:11, AR240:10, AR218:10, AR259:10, AR286:10, AR268:10, AR269:10, AR204:10, AR055:9, AR182:9, AR270:9, AR253:9, AR175:8, AR183:8, AR309:8, AR053:8, AR312:8, AR271:8, AR089:7, AR275:7, AR294:7, AR185:7, AR256:7, AR290:7, AR274:7, AR293:6, AR258:6, AR060:5, AR179:4, AR165:3, AR161:3, AR162:3, AR264:3, AR163:3, AR195:3, AR164:3, AR166:3, AR308:3, AR215:3, AR212:3, AR221:3, AR272:3, AR214:2, AR199:2, AR223:2, AR201:2, AR176:2, AR224:2, AR217:1, AR210:1, AR172:1, AR311:1, AR257:1, AR171:1, AR297:1, AR196:1, AR245:1, AR189:1 L0774:3, H0521:3, L0777:3, S0356:2, S0408:2, H0124:2, H0494:2, L0766:2, L0666:2, L0751:2, L0596:2, S0040:1, H0294:1, S0430:1, H0656:1, S0358:1, S0360:1, H0729:1, H0645:1, H0587:1, H0632:1, H0590:1, L0045:1, S0003:1, H0316:1, H0598:1,

336	HTEAM34	898364	346	S0036:1, H0591:1, L0564:1, H0560:1, H0509:1, H0641:1, S0002:1, L0640:1, L0662:1, L0775:1, L0655:1, L0659:1, L0783:1, L5622:1, L0663:1, L2653:1, H0701:1, H0689:1, H0672:1, H0539:1, S0406:1, L0439:1, L0749:1, L0786:1, S0434:1, S0436:1, H0543:1, S0424:1 and S0446:1.
				AR225:7, AR161:5, AR162:5, AR269:5, AR163:5, AR055:5, AR060:5, AR264:4, AR309:4, AR181:4, AR165:4, AR214:4, AR228:4, AR263:4, AR180:4, AR176:4, AR164:4, AR266:4, AR233:4, AR275:4, AR268:4, AR166:4, AR270:4, AR257:4, AR172:4, AR236:4, AR267:4, AR274:4, AR229:4, AR237:4, AR217:4, AR182:4, AR215:4, AR261:3, AR240:3, AR179:3, AR300:3, AR216:3, AR177:3, AR272:3, AR311:3, AR195:3, AR231:3, AR239:3, AR294:3, AR173:3, AR293:3, AR183:3, AR287:3, AR252:3, AR277:3, AR223:3, AR196:3, AR288:3, AR175:3, AR255:3, AR296:3, AR291:3, AR285:3, AR286:3, AR061:3, AR289:3, AR235:3, AR178:3, AR185:3, AR308:3, AR218:3, AR262:3, AR234:3, AR191:3, AR247:3, AR224:3, AR230:3, AR290:2, AR096:2, AR222:2, AR207:2, AR089:2, AR313:2, AR295:2, AR170:2, AR282:2, AR193:2, AR316:2, AR226:2, AR200:2, AR174:2, AR297:2, AR190:2, AR188:2, AR232:2, AR238:2, AR203:2, AR171:2, AR299:2, AR283:2, AR245:2, AR189:2, AR258:2, AR260:2, AR104:2, AR227:2, AR312:2, AR168:2, AR199:1, AR256:1, AR039:1, AR033:1, AR211:1, AR169:1, AR210:1, AR219:1 L0758:5, L0794:4, H0618:2, H0038:2 and H0616:1.
	HTEAM34	570049	523	

Table 1C summarizes additional polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID:), contig sequences (contig identifier (Contig ID:)) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B).

- 5 The first column provides a unique clone identifier, "Clone ID:", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide
- 10 sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing
- 15 amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).

Table 1C

cDNA Clone ID	SEQ ID NO:X	CONTIG ID:	BAC ID: A	SEQ ID NO:B	EXON From-To
HAUAI83	33	639009	AC010422	1037	1-326 1552-2084 2162-2261 2300-2427 4485-5868 5948-6362 7914-8017 8569-8681 8765-8875 8968-9037 9284-9499 9742-9910 10837-11187 11271-11321 11554-11707 11783-12766 12866-13225 13256-13827 14284-14367 14890-15090
HAUAI83	33	639009	AC018761	1038	1-326 1176-1284 1552-2084 2162-2261 2300-2426

					4485-5868 5948-6362 8569-8681 8765-8875 8968-9037 9284-9499 9742-9910 10317-10501 10837-11187 11271-11321 11554-11707 11783-12766 12866-13225 13256-13827 14284-14367 14890-15090
HAUAI83	33	639009	AC010422	1039	1-315 2004-2289 2650-2741 3554-3830
HAUAI83	33	639009	AC010422	1040	1-202 938-1047 1219-1395 1758-1956 2907-3429 3792-3935 5366-5485 6391-6688 6899-7269 7890-8316 8400-8524 8607-8682 8824-8999 9190-9302 9691-9796 10106-10177 10571-11051 11164-11490 12565-12696 13364-13501 13964-14592 14740-15540 15610-15798 15947-16642 16717-16832 16968-17408 17521-17612 18331-18579 19120-19303 19358-19514 19599-19702 20003-20245
HAUAI83	33	639009	AC018761	1041	1-202 938-1047 1219-1395

					1758-1956 2907-3429 3792-3935 5366-5485 6391-6688 6899-7269 7591-7711 7890-8316 8400-8524 8607-8682 8749-9073 9190-9302 9691-9796
HAUAI83	33	639009	AC018761	1042	1-82 128-293 1178-1447 1986-2278 2457-2711 3543-3844
HBINS58	37	1352386	AL096774	1043	1-1023 2010-2239 2581-2962 3153-3223 3324-3493 3973-4126
HBINS58	37	1352386	AL096774	1044	1-341
HBINS58	37	1352386	AL096774	1045	1-142
HCE3G69	43	728432	AC068946	1046	1-108 1186-1324 1746-1835 2138-2284 2448-2545 2718-2861 3091-5889
HCE3G69	43	728432	AC068946	1047	1-191
HCE3G69	43	728432	AC068946	1048	1-686
HCEFB80	45	1143407	AL022327	1049	1-2271 3506-3658 4643-4810 9039-9164 9382-9509 10587-10720 11135-11195 11265-11716 14644-15466 17451-17526 18012-18114 20530-20632 20957-21009 23696-23785 25338-25575 25969-26166
HCNDR47	51	1016919	AL122003	1050	1-236 531-696

					787-817 863-4508 5158-5744 6949-7029
HCNDR47	51	1016919	AL122003	1051	1-888 1304-2003 2830-3284 3719-4571 4618-5268 6131-6557 8947-9033 9058-9726 14176-14480 18456-18915 18960-19871 22365-22454 23082-23248 28058-28215
HCWGU37	59	1042325	AC007459	1052	1-242
HCWGU37	59	1042325	AC022435	1053	1-218 5587-5754
HCWGU37	59	1042325	AC022051	1054	1-294
HCWGU37	59	1042325	AC023672	1055	1-196
HCWGU37	59	1042325	AC011101	1056	1-100
HCWGU37	59	1042325	AC034243	1057	1-312 2334-2364
HCWGU37	59	1042325	AC010454	1058	1-218 5588-5755
HCWGU37	59	1042325	AC026144	1059	1-183
HCWGU37	59	1042325	AC009691	1060	1-292
HCWGU37	59	1042325	AL354696	1061	1-181
HCWGU37	59	1042325	AC073219	1062	1-123
HCWGU37	59	1042325	AC027414	1063	1-270
HCWGU37	59	1042325	AC010454	1064	1-303
HDPGT01	71	771583	AC020978	1065	1-180 2776-2899 3916-4077 4296-4335 4436-4632 4895-5181 8153-8246 9547-9666 9907-10007 10370-10618 10788-11046 11926-13423 13465-13494 13764-15689
HDPGT01	71	771583	AC020978	1066	1-384
HDPSB18	79	1043263	AL355512	1067	1-2572 3049-3871
HDPSB18	79	1043263	AC006176	1068	1-2571 3048-3872
HDPSB18	79	1043263	AL355512	1069	1-280

HDPWN93	85	992925	AC004590	1070	1-276 489-591 866-988 1106-1281 1323-1444 1632-1799 1866-2016 2109-2313 2634-3205 3360-3472 3528-3744 3820-5006 6580-6919 7076-7276 8057-8153 8318-8680
HDPWN93	85	992925	AC021491	1071	1-275 488-590 865-987 1105-1280 1322-1443 1631-1798 1865-2015 2108-2312 2633-3204 3359-3471 3527-3743 3819-5005 6579-6918 7075-7275 8054-8150 8315-8677
HDPWN93	85	992925	AC004590	1072	1-303 727-1252 5721-5846
HDPWN93	85	992925	AC021491	1073	1-303 727-1253 5723-5848
HDPXY01	86	879048	AL354000	1074	1-1319 4848-4975 5229-5600 6561-6654
HDPXY01	86	879048	AL035362	1075	1-1316 4844-4971 5225-5596 6557-6650
HDPXY01	86	879048	AL354000	1076	1-460
HDPXY01	86	879048	AL354000	1077	1-400
HDPXY01	86	879048	AL035362	1078	1-400
HDPXY01	86	879048	AL035362	1079	1-460
HFVGE32	118	854545	AL160269	1080	1-1122
HFVGE32	118	854545	AL138754	1081	1-1120
HHGCG53	133	340818	AC024037	1082	1-518
HHGCM76	134	662329	AC003665	1083	1-70

					304-609 900-1090 1240-1835 2272-2490 2581-3598
HHGCM76	134	662329	AC003665	1084	1-580 851-995 1224-1296 1314-1663 1930-1975 2724-2905 2968-3098 3283-3328 5121-5230 5331-5689
HJACG30	143	895505	AC018512	1085	1-776
HJACG30	143	895505	AC022305	1086	1-878
HJACG30	143	895505	AC002518	1087	1-150
HLTIP94	180	1087335	AC007431	1088	1-1299
HLTIP94	180	1087335	AC007431	1089	1-330
HMSDL37	199	973996	AC012086	1090	1-3328
HMSDL37	199	973996	AC018811	1091	1-3051
HMSDL37	199	973996	AC018494	1092	1-3029
HMSDL37	199	973996	AC012086	1093	1-224
HMSDL37	199	973996	AC012086	1094	1-468
HMSDL37	199	973996	AC018811	1095	1-222
HMSDL37	199	973996	AC018811	1096	1-468
HMSDL37	199	973996	AC018494	1097	1-224
HMSDL37	199	973996	AC018494	1098	1-1854
HNGBC07	217	1037631	AL022339	1099	1-1583
HNGOI12	225	1041375	AC003675	1100	1-2128
HNGOI12	225	1041375	AC001228	1101	1-2129
HNGOI12	225	1041375	AC013791	1102	1-2132
HNHFM14	230	664507	AC020552	1103	1-290
HNHFM14	230	664507	AC020552	1104	1-96
HPICB53	258	1042309	AC002351	1105	1-82 959-2236
HPICB53	258	1042309	AC020997	1106	1-1329
HPICB53	258	1042309	AC002351	1107	1-115
HPICB53	258	1042309	AC020997	1108	1-201 1064-1126 1665-2153 2308-3502
HPJBK12	260	1011467	AC022033	1109	1-2649
HPJBK12	260	1011467	AC013541	1110	1-2649
HPJBK12	260	1011467	AC022033	1111	1-190
HPJBK12	260	1011467	AC013541	1112	1-190
HPRAL78	263	1352342	AC007783	1113	1-2334 2508-3084 3578-3890 4198-4294 4376-4623 4712-5349

					5369-6088 6527-7107 7298-7392 7730-7846 9147-9476 10487-10575 10791-11298 11485-11601 11783-13009 13207-13501 13540-13772 14439-14800 14923-14983 15133-15355 15485-15653 16750-16805 16894-17078 17162-17219 18003-18089 21085-21146 21358-21501
HPRAL78	263	1352342	AC007783	1114	1-308
HPRAL78	263	1352342	AC007783	1115	1-1024
HRGBL78	272	910133	AL359541	1116	1-254 2777-3307 3670-3823 4113-4385 4844-5381 5995-7365
HSAWD74	278	460527	AC004951	1117	1-1651 1740-2593
HSAWD74	278	460527	AC004951	1118	1-149
HSAWD74	278	460527	AC004951	1119	1-5057 5082-8353 8404-8996
HTHBG43	312	919911	AL139257	1120	1-36 130-201 330-753 1823-2214 2331-2440 2728-2834 2920-3028 3370-3514 4153-5236 5877-6744 6813-7124 8441-9280 9527-9953 10394-10536 10945-11362 11763-11843 12653-12953 13970-14183 14223-14726

					15929-16299 16328-16751 17791-18093 18095-18712 18754-24628 24879-25426
HTHBG43	312	919911	AL139257	1121	1-286
HTLIV19	317	1046341	AC055750	1122	1-964
HTLIV19	317	1046341	AC027463	1123	1-964
HTLIV19	317	1046341	AC055750	1124	1-236
HTLIV19	317	1046341	AC027463	1125	1-236
HTOIZ02	321	826312	AC023146	1126	1-2101 3106-3722
HTOIZ02	321	826312	AC023146	1127	1-278
HTPCS72	323	854941	AL008639	1128	1-106 1457-1595 1666-2484 2910-3006 3705-4147 4768-5141 5304-5536 5746-5874 7114-7241 7468-7711 7963-8746 9438-12408 12884-14976
HTPCS72	323	854941	AL008639	1129	1-720
HTPIH83	324	919916	AL158821	1130	1-1862 1880-3126

Table 1D: The polynucleotides or polypeptides, or agonists or antagonists of the present invention can be used in assays to test for one or more biological activities. If these polynucleotides and polypeptides do exhibit activity in a particular assay, it is likely that these molecules may be involved in the diseases associated with the biological activity. Thus, the polynucleotides or polypeptides, or agonists or antagonists could be used to treat the associated disease.

The present invention encompasses methods of detecting, preventing, diagnosing, prognosticating, treating, and/or ameliorating a disease or disorder. In preferred embodiments, the present invention encompasses a method of treating a cardiovascular disease or disorder comprising administering to a patient in which such detection, treatment, prevention, and/or amelioration is desired a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) in an amount effective to detect, prevent, diagnose, prognosticate, treat, and/or ameliorate the cardiovascular disease or disorder.

In another embodiment, the present invention also encompasses methods of detecting, preventing, diagnosing, prognosticating, treating, and/or ameliorating a cardiovascular disease or disorder; comprising administering to a patient combinations of the proteins, nucleic acids, or antibodies of the invention (or fragments or variants thereof), sharing similar indications as shown in the corresponding rows in Column 3 of Table 1D.

Table 1D provides information related to biological activities for polynucleotides and polypeptides of the invention (including antibodies, agonists, and/or antagonists thereof). Table 1D also provides information related to assays which may be used to test polynucleotides and polypeptides of the invention (including antibodies, agonists, and/or antagonists thereof) for the corresponding biological activities. The first and second columns of Table 1D show the "Gene No." and "cDNA Clone ID No.", respectively, indicating certain nucleic acids and proteins (or antibodies against the same) of the invention (including polynucleotide, polypeptide, and antibody fragments or variants thereof) that may be used in detecting, diagnosing, preventing, treating, or ameliorating the disease(s) or disorder(s) indicated in column 6 and as indicated in the corresponding row in the "Disease Class" or "Preferred Indication" Columns of Table 1E. The third column ("AA SEQ ID NO:Y") indicates the Sequence Listing SEQ ID Number for polypeptide sequences encoded by the corresponding cDNA clones (also as indicated in Tables 1A, Table 1B, and Table 2). The fourth column ("Biological Activity") indicates a biological activity corresponding to the indicated polypeptides (or polynucleotides encoding said polypeptides). The fifth column ("Exemplary Activity Assay") further describes the corresponding biological activity and also provides information pertaining to the various types of assays which may be performed to test, demonstrate, or quantify the corresponding biological activity.

Table 1D describes the use of, inter alia, FMAT technology for testing or demonstrating various biological activities. Fluorometric microvolume assay technology (FMAT) is a fluorescence-based system which provides a means to perform nonradioactive cell- and bead-based assays to detect activation of cell signal transduction pathways. This technology was designed specifically for ligand binding and immunological assays. Using this technology, fluorescent cells or beads at the bottom of the well are detected as localized areas of concentrated fluorescence using a data processing system. Unbound fluorophore comprising the background signal is ignored, allowing for a wide variety of homogeneous assays. FMAT technology may be used for peptide ligand binding assays, immunofluorescence, apoptosis, cytotoxicity, and bead-based immunocapture assays. *See*, Miraglia S et. al., "Homogeneous cell and bead based assays for highthroughput screening using fluorometric microvolume assay technology," *Journal of Biomolecular Screening*; 4:193-204 (1999). In particular, FMAT technology may be used to test, confirm, and/or identify the ability of polypeptides (including polypeptide fragments and variants)

to activate signal transduction pathways. For example, FMAT technology may be used to test, confirm, and/or identify the ability of polypeptides to upregulate production of immunomodulatory proteins (such as, for example, interleukins, GM-CSF, Rantes, and Tumor Necrosis factors, as well as other cellular regulators (e.g. insulin)).

5 Table 1D also describes the use of kinase assays for testing, demonstrating, or quantifying biological activity. In this regard, the phosphorylation and de-phosphorylation of specific amino acid residues (e.g. Tyrosine, Serine, Threonine) on cell-signal transduction proteins provides a fast, reversible means for activation and de-activation of cellular signal transduction pathways. Moreover, cell signal transduction via phosphorylation/de-phosphorylation is crucial to
10 the regulation of a wide variety of cellular processes (e.g. proliferation, differentiation, migration, apoptosis, etc.). Accordingly, kinase assays provide a powerful tool useful for testing, confirming, and/or identifying polypeptides (including polypeptide fragments and variants) that mediate cell signal transduction events via protein phosphorylation. See e.g., Forrer, P., Tamaskovic R., and Jaussi, R. "Enzyme-Linked Immunosorbent Assay for Measurement of JNK, ERK, and p38 Kinase
15 Activities" Biol. Chem. 379(8-9): 1101-1110 (1998).

Table 1D

Gene No.	cDNA Clone ID	AA SEQ ID NO: Y	Biological Activity	Exemplary Activity Assay	Preferred Indication
1	H2CBU83	527	Stimulation of insulin secretion from pancreatic beta cells.	<p>Assays for measuring secretion of insulin are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to stimulate insulin secretion. For example, insulin secretion is measured by FMAT using anti-rat insulin antibodies. Insulin secretion from pancreatic beta cells is upregulated by glucose and also by certain proteins/peptides, and dysregulation is a key component in diabetes. Exemplary assays that may be used or routinely modified to test for stimulation of insulin secretion (from pancreatic cells) by polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in: Ahren, B., et al.,</p>	<p>A highly preferred indication is diabetes mellitus. An additional highly preferred indication is a complication associated with diabetes (e.g., diabetic retinopathy, diabetic nephropathy, kidney disease (e.g., renal failure, nephropathy and/or other diseases and disorders as described in the "Renal Disorders" section below), diabetic neuropathy, nerve disease and nerve damage (e.g., due to diabetic neuropathy), blood vessel blockage, heart disease, stroke, impotence (e.g., due to diabetic neuropathy or blood vessel blockage), seizures, mental confusion, drowsiness, nonketotic hyperglycemic-hyposmolar coma, cardiovascular disease (e.g., heart disease, atherosclerosis, microvascular disease, hypertension, stroke, and other diseases and disorders as</p>

				<p>Am J Physiol, 277(4 Pt 2):R959-66 (1999); Li, M., et al., Endocrinology, 138(9):3735-40 (1997); Kim, K.H., et al., FEBS Lett, 377(2):237-9 (1995); and, Miraglia S et. al., Journal of Biomolecular Screening, 4:193-204 (1999), the contents of each of which is herein incorporated by reference in its entirety. Pancreatic cells that may be used according to these assays are publicly available (e.g., through the ATCC) and/or may be routinely generated. Exemplary pancreatic cells that may be used according to these assays include rat INS-1 cells. INS-1 cells are a semi-adherent cell line established from cells isolated from an X-ray induced rat transplantable insulinoma. These cells retain characteristics typical of native pancreatic beta cells including glucose inducible insulin secretion. References: Asfari et al. Endocrinology 1992 130:167.</p>	<p>described in the "Cardiovascular Disorders" section below), dyslipidemia, endocrine disorders (as described in the "Endocrine Disorders" section below), neuropathy, vision impairment (e.g., diabetic retinopathy and blindness), ulcers and impaired wound healing, and infection (e.g., infectious diseases and disorders as described in the "Infectious Diseases" section below, especially of the urinary tract and skin), carpal tunnel syndrome and Dupuytren's contracture). An additional highly preferred indication is obesity and/or complications associated with obesity. Additional highly preferred indications include weight loss or alternatively, weight gain. Additional highly preferred indications are complications associated with insulin resistance.</p>
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H2MAC30	528	<p>Activation of transcription through serum response element in immune cells (such as T-cells).</p>	<p>Assays for the activation of transcription through the Serum Response Element (SRE) are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate the serum response factors and modulate the expression of genes involved in growth. Exemplary assays for transcription through the SRE that may be used or routinely modified to test SRE activity of the polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); and Black et al., Virus Genes 12(2):105-117 (1997), the content of each of which are</p>	<p>A preferred embodiment of the invention includes a method for inhibiting (e.g., reducing) TNF alpha production. An alternative preferred embodiment of the invention includes a method for stimulating (e.g., increasing) TNF alpha production. Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"), Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, Crohn's disease, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional highly preferred indications include inflammation and inflammatory disorders, and</p>
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				<p>herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary mouse T cells that may be used according to these assays include the CTLL cell line, which is an IL-2 dependent suspension culture of T cells with cytotoxic activity.</p>	<p>treating joint damage in patients with rheumatoid arthritis. An additional highly preferred indication is sepsis. Highly preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Additionally, highly preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma, melanoma, glioma (e.g., malignant glioma), solid tumors, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL),</p>
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				<p>Exemplary assays for JNK kinase activity that may be used or routinely modified to test JNK kinase-induced activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include the assays disclosed in Forrer et al., Biol Chem 379(8-9):1101-1110 (1998); Gupta et al., Exp Cell Res 247(2): 495-504 (1999); Kyriakis JM, Biochem Soc Symp 64:29-48 (1999); Chang and Karin, Nature 410(6824):37-40 (2001); and Cobb MH, Prog Biophys Mol Biol 71(3-4):479-500 (1999); the contents of each of which are herein incorporated by reference in its entirety. Exemplary cells that may be used according to these assays include eosinophils. Eosinophils are important in the late stage of allergic reactions; they are recruited to tissues and mediate the inflammatory response of late stage allergic reaction. Moreover, exemplary assays</p>	<p>lupus erythematosus, Crohn's disease, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below). Highly preferred indications also include boosting or inhibiting immune cell proliferation. Preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include boosting an eosinophil-mediated immune response, and suppressing an eosinophil-mediated immune response.</p>
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				<p>that may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to modulate signal transduction, cell proliferation, activation, or apoptosis in eosinophils include assays disclosed and/or cited in: Zhang JP, et al., "Role of caspases in dexamethasone-induced apoptosis and activation of c-Jun NH2-terminal kinase and p38 mitogen-activated protein kinase in human eosinophils" Clin Exp Immunol; Oct;122(1):20-7 (2000); Hebestreit H, et al., "Disruption of fas receptor signaling by nitric oxide in eosinophils" J Exp Med; Feb 2;187(3):415-25 (1998); J Allergy Clin Immunol 1999 Sep;104(3 Pt 1):565-74; and, Sousa AR, et al., "In vivo resistance to corticosteroids in bronchial asthma is associated with enhanced phosphorylation of JUN N-</p>
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				terminal kinase and failure of prednisolone to inhibit JUN N-terminal kinase phosphorylation" J Allergy Clin Immunol; Sep;104(3 Pt 1):565-74 (1999); the contents of each of which are herein incorporated by reference in its entirety.	
H6EDC19	529	Regulation of viability and proliferation of pancreatic beta cells.	Assays for the regulation of viability and proliferation of cells in vitro are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate viability and proliferation of pancreatic beta cells. For example, the Cell Titer-Glo luminescent cell viability assay measures the number of viable cells in culture based on quantitation of the ATP present which signals the presence of metabolically active cells. Exemplary assays that may be used or routinely modified to test regulation of viability and	A highly preferred indication is diabetes mellitus. An additional highly preferred indication is a complication associated with diabetes (e.g., diabetic retinopathy, diabetic nephropathy, kidney disease (e.g., renal failure, nephropathy and/or other diseases and disorders as described in the "Renal Disorders" section below), diabetic neuropathy, nerve disease and nerve damage (e.g., due to diabetic neuropathy), blood vessel blockage, heart disease, stroke, impotence (e.g., due to diabetic neuropathy or blood vessel blockage), seizures, mental confusion, drowsiness, nonketotic hyperglycemic-	

				<p>proliferation of pancreatic beta cells by polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in: Friedrichsen BN, et al., Mol Endocrinol, 15(1):136-48 (2001); Huotari MA, et al., Endocrinology, 139(4):1494-9 (1998); Hugl SR, et al., J Biol Chem 1998 Jul 10;273(28):17771-9 (1998), the contents of each of which is herein incorporated by reference in its entirety. Pancreatic cells that may be used according to these assays are publicly available (e.g., through the ATCC) and/or may be routinely generated. Exemplary pancreatic cells that may be used according to these assays include rat INS-1 cells. INS-1 cells are a semi-adherent cell line established from cells isolated from an X-ray induced rat transplantable insulinoma. These cells retain characteristics typical of native pancreatic beta cells including glucose inducible insulin</p>	<p>hyperosmolar coma, cardiovascular disease (e.g., heart disease, atherosclerosis, microvascular disease, hypertension, stroke, and other diseases and disorders as described in the "Cardiovascular Disorders" section below), dyslipidemia, endocrine disorders (as described in the "Endocrine Disorders" section below), neuropathy, vision impairment (e.g., diabetic retinopathy and blindness), ulcers and impaired wound healing, and infection (e.g., infectious diseases and disorders as described in the "Infectious Diseases" section below, especially of the urinary tract and skin), carpal tunnel syndrome and Dupuytren's contracture). An additional highly preferred indication is obesity and/or complications associated with obesity. Additional highly preferred indications include weight loss or alternatively, weight gain. Additional highly preferred indications are</p>
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				secretion. References: Asfari et al. Endocrinology 1992 130:167.	complications associated with insulin resistance.
H6EDC19	529	Proliferation of pre-adipose cells (such as 3T3-L1 cells)	Assays for the regulation (i.e. increases or decreases) of viability and proliferation of cells in vitro are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate viability and proliferation of pre-adipose cells and cell lines. For example, the CellTiter-Glo® Luminescent Cell Viability Assay (Promega Corp., Madison, WI, USA) can be used to measure the number of viable cells in culture based on quantitation of the ATP present which signals the presence of metabolically active cells. 3T3-L1 is a mouse preadipocyte cell line. It is a continuous substrain of 3T3 fibroblast cells developed through clonal isolation. Cells were differentiated to an		

				adipose-like state before being used in the screen. See Green H and Meuth M., Cell 3: 127-133 (1974), which is herein incorporated by reference in its entirety.	
	HACBD91	530	Activation of transcription through cAMP response element (CRE) in pre-adipocytes.	Assays for the activation of transcription through the cAMP response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to increase cAMP, regulate CREB transcription factors, and modulate expression of genes involved in a wide variety of cell functions. For example, a 3T3-L1/CRE reporter assay may be used to identify factors that activate the cAMP signaling pathway. CREB plays a major role in adipogenesis, and is involved in differentiation into adipocytes. CRE contains the binding sequence for the transcription factor CREB	A highly preferred indication is obesity and/or complications associated with obesity. Additional highly preferred indications include weight loss or alternatively, weight gain. An additional highly preferred indication is diabetes mellitus. An additional highly preferred indication is a complication associated with diabetes (e.g., diabetic retinopathy, diabetic nephropathy, kidney disease (e.g., renal failure, nephropathy and/or other diseases and disorders as described in the "Renal Disorders" section below), diabetic neuropathy, nerve disease and nerve damage (e.g., due to diabetic neuropathy), blood vessel blockage, heart disease, stroke, impotence (e.g., due to diabetic neuropathy or blood vessel

				<p>(CRE binding protein). Exemplary assays for transcription through the cAMP response element that may be used or routinely modified to test cAMP-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Reusch et al., Mol Cell Biol 20(3):1008-1020 (2000); and Klemm et al., J Biol Chem 273:917-923 (1998), the contents of each of which are herein incorporated by reference in its entirety. Pre-adipocytes that may be used according to these assays are publicly available (e.g., through the ATCC) and/or may be routinely generated. Exemplary mouse adipocyte cells that may be used</p>	<p>blockage), seizures, mental confusion, drowsiness, nonketotic hyperglycemic-hyperosmolar coma, cardiovascular disease (e.g., heart disease, atherosclerosis, microvascular disease, hypertension, stroke, and other diseases and disorders as described in the "Cardiovascular Disorders" section below), dyslipidemia, endocrine disorders (as described in the "Endocrine Disorders" section below), neuropathy, vision impairment (e.g., diabetic retinopathy and blindness), ulcers and impaired wound healing, and infection (e.g., infectious diseases and disorders as described in the "Infectious Diseases" section below, especially of the urinary tract and skin), carpal tunnel syndrome and Dupuytren's contracture). Additional highly preferred indications are complications associated with insulin resistance.</p>
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				according to these assays include 3T3-L1 cells. 3T3-L1 is an adherent mouse preadipocyte cell line that is a continuous substrain of 3T3 fibroblast cells developed through clonal isolation and undergo a pre-adipocyte to adipose-like conversion under appropriate differentiation conditions known in the art.	
	HACBD91	530	Activation of transcription through cAMP response element in immune cells (such as T-cells).	Assays for the activation of transcription through the cAMP response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to increase cAMP and regulate CREB transcription factors, and modulate expression of genes involved in a wide variety of cell functions. Exemplary assays for transcription through the cAMP response element that may be used or routinely modified to test cAMP-response element	Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"), and infection (e.g., an infectious disease as described below under "Infectious Disease"). Preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated

				<p>activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Black et al., Virus Genes 15(2):105-117 (1997); and Belkowski et al., J Immunol 161(2):659-665 (1998), the contents of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary mouse T cells that may be used according to these assays include the CTLL cell line, which is a suspension culture of IL-2 dependent cytotoxic T cells.</p>	<p>immune response. Additional preferred indications include inflammation and inflammatory disorders. Highly preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma (e.g., T cell lymphoma, Burkitt's lymphoma, non-Hodgkins lymphoma, Hodgkin's disease), melanoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, acute lymphocytic anemia</p>
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					(ALL), plasmacytomas, multiple myeloma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, and asthma and allergy.
					A highly preferred embodiment of the invention includes a method for stimulating (e.g., increasing) IL-6 production. An alternative highly preferred embodiment of the invention includes a method for inhibiting (e.g., reducing) IL-6 production. A highly preferred indication is the stimulation or enhancement of mucosal immunity. Highly preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"),
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				<p>regulated by cytokines, growth factors, and hormones are well known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to mediate immunomodulation and differentiation and modulate T cell proliferation and function. Exemplary assays that test for immunomodulatory proteins evaluate the production of cytokines, such as IL-6, and the stimulation and upregulation of T cell proliferation and functional activities. Such assays that may be used or routinely modified to test immunomodulatory and differentiation activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Miraglia et al., J Biomolecular Screening 4:193-204(1999); Rowland et al.,</p>	<p>and infection (e.g., as described below under "Infectious Disease"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below) and immunodeficiencies (e.g., as described below). Highly preferred indications also include boosting a B cell-mediated immune response and alternatively suppressing a B cell-mediated immune response. Highly preferred indications include inflammation and inflammatory disorders. Additional highly preferred indications include asthma and allergy. Highly preferred indications include neoplastic diseases (e.g., myeloma, plasmacytoma, leukemia, lymphoma, melanoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred</p>
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				<p>"Lymphocytes: a practical approach" Chapter 6:138-160 (2000); and Verhasselt et al., J Immunol 158:2919-2925 (1997), the contents of each of which are herein incorporated by reference in its entirety. Human dendritic cells that may be used according to these assays may be isolated using techniques disclosed herein or otherwise known in the art. Human dendritic cells are antigen presenting cells in suspension culture, which, when activated by antigen and/or cytokines, initiate and upregulate T cell proliferation and functional activities.</p>	<p>indications include neoplasms and cancers, such as, myeloma, plasmacytoma, leukemia, lymphoma, melanoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, and Lyme Disease. An additional preferred</p>
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					indication is infection (e.g., an infectious disease as described below under "Infectious Disease").
					A highly preferred indication is diabetes mellitus. An additional highly preferred indication is a complication associated with diabetes (e.g., diabetic retinopathy, diabetic nephropathy, kidney disease (e.g., renal failure, nephropathy and/or other diseases and disorders as described in the "Renal Disorders" section below), diabetic neuropathy, nerve disease and nerve damage (e.g., due to diabetic neuropathy), blood vessel blockage, heart disease, stroke, impotence (e.g., due to diabetic neuropathy or blood vessel blockage), seizures, mental confusion, drowsiness, nonketotic hyperglycemic-hyperosmolar coma, cardiovascular disease (e.g., heart disease, atherosclerosis, microvascular disease, hypertension, stroke, and other

				<p>(including antibodies and agonists or antagonists of the invention) include assays disclosed in: Streeper, R.S., et al., Mol Endocrinol, 12(11):1778-91 (1998); Garcia-Jimenez, C., et al., Mol Endocrinol, 8(10):1361-9 (1994); Barroso, I., et al., J Biol Chem, 274(25):17997-8004 (1999); Ijpenberg, A., et al., J Biol Chem, 272(32):20108-20117 (1997); Berger, et al., Gene 66:1-10 (1988); and, Cullen, B., et al., Methods in Enzymol. 216:362-368 (1992), the contents of each of which is herein incorporated by reference in its entirety. Hepatocytes that may be used according to these assays are publicly available (e.g., through the ATCC) and/or may be routinely generated. Exemplary hepatocytes that may be used according to these assays includes the H4IIE rat liver hepatoma cell line.</p>	<p>diseases and disorders as described in the "Cardiovascular Disorders" section below), dyslipidemia, endocrine disorders (as described in the "Endocrine Disorders" section below), neuropathy, vision impairment (e.g., diabetic retinopathy and blindness), ulcers and impaired wound healing, and infection (e.g., infectious diseases and disorders as described in the "Infectious Diseases" section below, especially of the urinary tract and skin), carpal tunnel syndrome and Dupuytren's contracture). An additional highly preferred indication is obesity and/or complications associated with obesity. Additional highly preferred indications include weight loss or alternatively, weight gain. Additional highly preferred indications are complications associated with insulin resistance.</p>
HACBD91	530	Activation of Endothelial Cell	<p>Kinase assay. JNK and p38 kinase assays for signal</p>	<p>A highly preferred embodiment of the invention</p>	

			<p>p38 or JNK Signaling Pathway.</p>	<p>transduction that regulate cell proliferation, activation, or apoptosis are well known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to promote or inhibit cell proliferation, activation, and apoptosis. Exemplary assays for JNK and p38 kinase activity that may be used or routinely modified to test JNK and p38 kinase-induced activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include the assays disclosed in Forrer et al., Biol Chem 379(8-9):1101-1110 (1998); Gupta et al., Exp Cell Res 247(2): 495-504 (1999); Kyriakis JM, Biochem Soc Symp 64:29-48 (1999); Chang and Karin, Nature 410(6824):37-40 (2001); and Cobb MH, Prog Biophys Mol Biol 71(3-4):479-500 (1999); the contents of each of which</p>	<p>includes a method for stimulating endothelial cell growth. An alternative highly preferred embodiment of the invention includes a method for inhibiting endothelial cell growth. A highly preferred embodiment of the invention includes a method for stimulating endothelial cell proliferation. An alternative highly preferred embodiment of the invention includes a method for inhibiting endothelial cell proliferation. A highly preferred embodiment of the invention includes a method for stimulating apoptosis of endothelial cells. An alternative highly preferred embodiment of the invention includes a method for inhibiting (e.g., decreasing) apoptosis of endothelial cells. A highly preferred embodiment of the invention includes a method for stimulating (e.g., increasing) endothelial cell activation. An alternative highly preferred</p>
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				<p>are herein incorporated by reference in its entirety. Endothelial cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary endothelial cells that may be used according to these assays include human umbilical vein endothelial cells (HUVEC), which are endothelial cells which line venous blood vessels, and are involved in functions that include, but are not limited to, angiogenesis, vascular permeability, vascular tone, and immune cell extravasation.</p>	<p>embodiment of the invention includes a method for inhibiting (e.g., decreasing) the activation of and/or inactivating endothelial cells. A highly preferred embodiment of the invention includes a method for stimulating angiogenesis. An alternative highly preferred embodiment of the invention includes a method for inhibiting angiogenesis. A highly preferred embodiment of the invention includes a method for reducing cardiac hypertrophy. An alternative highly preferred embodiment of the invention includes a method for inducing cardiac hypertrophy. Highly preferred indications include neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders"), and disorders of the cardiovascular system (e.g., heart disease, congestive heart failure, hypertension, aortic stenosis, cardiomyopathy, valvular</p>
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					<p>regurgitation, left ventricular dysfunction, atherosclerosis and atherosclerotic vascular disease, diabetic nephropathy, intracardiac shunt, cardiac hypertrophy, myocardial infarction, chronic hemodynamic overload, and/or as described below under "Cardiovascular Disorders").</p> <p>Highly preferred indications include cardiovascular, endothelial and/or angiogenic disorders (e.g., systemic disorders that affect vessels such as diabetes mellitus, as well as diseases of the vessels themselves, such as of the arteries, capillaries, veins and/or lymphatics). Highly preferred are indications that stimulate angiogenesis and/or cardiovascularization. Highly preferred are indications that inhibit angiogenesis and/or cardiovascularization.</p> <p>Highly preferred indications include antiangiogenic activity to treat solid tumors, leukemias, and Kaposi's sarcoma, and retinal disorders.</p>
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					<p>Highly preferred indications include neoplasms and cancer, such as, Kaposi's sarcoma, hemangioma (capillary and cavernous), glomus tumors, telangiectasia, bacillary angiomatosis, hemangioendothelioma, angiosarcoma, haemangiopericytoma, lymphangioma, lymphangiosarcoma. Highly preferred indications also include cancers such as, prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver, and urinary cancer. Preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Highly preferred indications also include arterial disease, such as, atherosclerosis, hypertension, coronary artery disease, inflammatory vasculitides, Reynaud's disease and Reynaud's phenomenon, aneurysms,</p>
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					<p>restenosis; venous and lymphatic disorders such as thrombophlebitis, lymphangitis, and lymphedema; and other vascular disorders such as peripheral vascular disease, and cancer. Highly preferred indications also include trauma such as wounds, burns, and injured tissue (e.g., vascular injury such as, injury resulting from balloon angioplasty, and atherosclerotic lesions), implant fixation, scarring, ischemia reperfusion injury, rheumatoid arthritis, cerebrovascular disease, renal diseases such as acute renal failure, and osteoporosis. Additional highly preferred indications include stroke, graft rejection, diabetic or other retinopathies, thrombotic and coagulative disorders, vasculitis, lymph angiogenesis, sexual disorders, age-related macular degeneration, and treatment/prevention of endometriosis</p>
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					<p>and related conditions.</p> <p>Additional highly preferred indications include fibromas, heart disease, cardiac arrest, heart valve disease, and vascular disease.</p> <p>Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders").</p> <p>Preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below) and immunodeficiencies (e.g., as described below). Additional preferred indications include inflammation and inflammatory disorders (such as acute and chronic inflammatory diseases, e.g., inflammatory bowel disease and Crohn's disease), and pain management.</p>
	HACBD91	530	Activation of transcription through CD28	Assays for the activation of transcription through the CD28 response element are well-	<p>A highly preferred embodiment of the invention includes a method for</p>

			<p>response element in immune cells (such as T-cells).</p>	<p>known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to stimulate IL-2 expression in T cells. Exemplary assays for transcription through the CD28 response element that may be used or routinely modified to test CD28-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); McGuire and Iacobelli, J Immunol 159(3):1319-1327 (1997); Parra et al., J Immunol 166(4):2437-2443 (2001); and Butscher et al., J Biol Chem 3(1):552-560 (1998), the contents of each of which are herein incorporated by</p>	<p>stimulating T cell proliferation. An alternative highly preferred embodiment of the invention includes a method for inhibiting T cell proliferation. A highly preferred embodiment of the invention includes a method for activating T cells. An alternative highly preferred embodiment of the invention includes a method for inhibiting the activation of and/or inactivating T cells. A highly preferred embodiment of the invention includes a method for stimulating (e.g., increasing) IL-2 production. An alternative highly preferred embodiment of the invention includes a method for inhibiting (e.g., reducing) IL-2 production. Additional highly preferred indications include inflammation and inflammatory disorders. Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus,</p>
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				<p>reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary human T cells that may be used according to these assays include the JURKAT cell line, which is a suspension culture of leukemia cells that produce IL-2 when stimulated.</p>	<p>multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. An additional highly preferred indication includes infection (e.g., AIDS, and/or as described below under "Infectious Disease"). Highly preferred indications include neoplastic diseases (e.g., melanoma, renal cell carcinoma, leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, for example, melanoma (e.g., metastatic melanoma), renal cell carcinoma (e.g., metastatic renal cell carcinoma), leukemia, lymphoma (e.g., T cell lymphoma), and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other</p>
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					<p>preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. A highly preferred indication is infection (e.g., tuberculosis, infections associated with granulomatous disease, and osteoporosis, and/or an infectious disease as described below under "Infectious Disease"). A highly preferred indication is AIDS. Additional highly preferred indications include suppression of immune reactions to transplanted organs and/or tissues, uveitis, psoriasis, and tropical spastic paraparesis. Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"). Preferred indications also include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute</p>
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					lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, asthma and allergy.
HACBD91	530	Activation of transcription through NFAT response element in immune cells (such as natural killer cells).	Assays for the activation of transcription through the Nuclear Factor of Activated T cells (NFAT) response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate NFAT transcription factors and modulate expression of genes involved in immunomodulatory functions. Exemplary assays for transcription through the NFAT response element that may be used or routinely modified to test NFAT-	Highly preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional highly preferred indications include inflammation and	

				<p>response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Aramburu et al., J Exp Med 182(3):801-810 (1995); De Boer et al., Int J Biochem Cell Biol 31(10):1221-1236 (1999); Fraser et al., Eur J Immunol 29(3):838-844 (1999); and Yeseen et al., J Biol Chem 268(19):14285-14293 (1993), the contents of each of which are herein incorporated by reference in its entirety. NK cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary human NK cells that may be used according to these assays include the NK-YT cell line, which is a human natural killer cell line with</p>	<p>inflammatory disorders. An additional highly preferred indication is infection (e.g., an infectious disease as described below under "Infectious Disease"). Preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications also include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma,</p>
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				cytolytic and cytotoxic activity.	arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, asthma and allergy.

				<p>of the polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Benson et al., J Immunol 153(9):3862-3873 (1994); and Black et al., Virus Genes 12(2):105-117 (1997), the content of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary T cells that may be used according to these assays include the NK-YT cell line, which is a human natural killer cell line with cytolytic and cytotoxic activity.</p>	<p>Crohn's disease, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional highly preferred indications include inflammation and inflammatory disorders, and treating joint damage in patients with rheumatoid arthritis. An additional highly preferred indication is sepsis. Highly preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Additionally, highly preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma, melanoma, glioma (e.g., malignant glioma), solid tumors, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other</p>
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					<p>preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, cardiac reperfusion injury, and asthma and allergy. An additional preferred indication is infection (e.g., an infectious disease as described below under "Infectious Disease").</p>
	HACBD91	530	Activation of transcription	Assays for the activation of transcription through the AP1	Preferred indications include neoplastic diseases

			through API response element in immune cells (such as T-cells).	<p>response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to modulate growth and other cell functions. Exemplary assays for transcription through the API response element that may be used or routinely modified to test API-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1988); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Rellahan et al., J Biol Chem 272(49):30806-30811 (1997); Chang et al., Mol Cell Biol 18(9):4986-4993 (1998); and Fraser et al., Eur J Immunol 29(3):838-844 (1999), the contents of each of which are</p>	<p>(e.g., as described below under "Hyperproliferative Disorders"), blood disorders (e.g., as described below under "Immune Activity", "Cardiovascular Disorders", and/or "Blood-Related Disorders"), and infection (e.g., an infectious disease as described below under "Infectious Disease"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below) and immunodeficiencies (e.g., as described below). Additional highly preferred indications include inflammation and inflammatory disorders. Highly preferred indications also include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Highly preferred indications include neoplasms and cancers, such as, leukemia,</p>
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				<p>herein incorporated by reference in its entirety. Human T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary human T cells that may be used according to these assays include the SUPT cell line, which is an IL-2 and IL-4 responsive suspension-culture cell line.</p>	<p>lymphoma, prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver, and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include arthritis, asthma, AIDS, allergy, anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, granulomatous disease, inflammatory bowel disease, sepsis, psoriasis, suppression of immune reactions to transplanted organs and tissues, endocarditis, meningitis, and Lyme Disease.</p>
	HACBD91	530	<p>Activation of transcription through CD28 response element in immune cells (such as T-cells).</p>	<p>Assays for the activation of transcription through the CD28 response element are well-known in the art and may be used or routinely modified to assess the ability of</p>	<p>A highly preferred embodiment of the invention includes a method for stimulating T cell proliferation. An alternative highly preferred embodiment of the invention</p>

				<p>polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to stimulate IL-2 expression in T cells. Exemplary assays for transcription through the CD28 response element that may be used or routinely modified to test CD28-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); McGuire and Iacobelli, J Immunol 159(3):1319-1327 (1997); Parra et al., J Immunol 166(4):2437-2443 (2001); and Butscher et al., J Biol Chem 3(1):552-560 (1998), the contents of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are</p>	<p>includes a method for inhibiting T cell proliferation. A highly preferred embodiment of the invention includes a method for activating T cells. An alternative highly preferred embodiment of the invention includes a method for inhibiting the activation of and/or inactivating T cells. A highly preferred embodiment of the invention includes a method for stimulating (e.g., increasing) IL-2 production. An alternative highly preferred embodiment of the invention includes a method for inhibiting (e.g., reducing) IL-2 production. Additional highly preferred indications include inflammation and inflammatory disorders. Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as</p>
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				<p>publicly available (e.g., through the ATCC). Exemplary human T cells that may be used according to these assays include the SUPT cell line, which is a suspension culture of IL-2 and IL-4 responsive T cells.</p> <p>described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Highly preferred indications include neoplastic diseases (e.g., melanoma, renal cell carcinoma, leukemia, lymphoma, and/or as described below under “Hyperproliferative Disorders”). Highly preferred indications include neoplasms and cancers, such as, for example, melanoma (e.g., metastatic melanoma), renal cell carcinoma (e.g., metastatic renal cell carcinoma), leukemia, lymphoma (e.g., T cell lymphoma), and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. A highly preferred indication includes infection (e.g.,</p>
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					<p>AIDS, tuberculosis, infections associated with granulomatous disease, and osteoporosis, and/or as described below under "Infectious Disease"). A highly preferred indication is AIDS. Additional highly preferred indications include suppression of immune reactions to transplanted organs and/or tissues, uveitis, psoriasis, and tropical spastic paraparesis. Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"). Preferred indications also include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, hemophilia, hypercoagulation, diabetes</p>
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					mellitus, endocarditis, meningitis, Lyme Disease, asthma and allergy.
					Highly preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional highly preferred indications include inflammation and inflammatory disorders. An additional highly preferred indication is infection (e.g., an infectious disease as described below under "Infectious Disease"). Preferred indications include neoplastic diseases (e.g., leukemia,
					Assays for the activation of transcription through the Nuclear Factor of Activated T cells (NFAT) response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate NFAT transcription factors and modulate expression of genes involved in immunomodulatory functions. Exemplary assays for transcription through the NFAT response element that may be used or routinely modified to test NFAT-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol
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					Assays for the activation of transcription through the Nuclear Factor of Activated T cells (NFAT) response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate NFAT transcription factors and modulate expression of genes involved in immunomodulatory functions. Exemplary assays for transcription through the NFAT response element that may be used or routinely modified to test NFAT-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol
					Assays for the activation of transcription through the Nuclear Factor of Activated T cells (NFAT) response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate NFAT transcription factors and modulate expression of genes involved in immunomodulatory functions. Exemplary assays for transcription through the NFAT response element that may be used or routinely modified to test NFAT-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol
					Assays for the activation of transcription through the Nuclear Factor of Activated T cells (NFAT) response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate NFAT transcription factors and modulate expression of genes involved in immunomodulatory functions. Exemplary assays for transcription through the NFAT response element that may be used or routinely modified to test NFAT-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol
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					Assays for the activation of transcription through the Nuclear Factor of Activated T cells (NFAT) response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate NFAT transcription factors and modulate expression of genes involved in immunomodulatory functions. Exemplary assays for transcription through the NFAT response element that may be used or routinely modified to test NFAT-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol
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					Assays for the activation of transcription through the Nuclear Factor of Activated T cells (NFAT) response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists

				<p>216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); Serfling et al., Biochim Biophys Acta 1498(1):1-18 (2000); De Boer et al., Int J Biochem Cell Biol 31(10):1221-1236 (1999); Fraser et al., Eur J Immunol 29(3):838-844 (1999); and Yeseen et al., J Biol Chem 268(19):14285-14293 (1993), the contents of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary human T cells that may be used according to these assays include the SUPT cell line, which is a suspension culture of IL-2 and IL-4 responsive T cells.</p>	<p>lymphoma, and/or as described below under "Hyperproliferative Disorders"). Preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications also include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation,</p>
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				diabetes mellitus, endocarditis, meningitis, Lyme Disease, asthma and allergy.
HACBD91	530	Activation of transcription through NFKB response element in immune cells (such as T-cells).	Assays for the activation of transcription through the NFKB response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate NFKB transcription factors and modulate expression of immunomodulatory genes. Exemplary assays for transcription through the NFKB response element that may be used or routinely modified to test NFKB-response element activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA	Highly preferred indications include inflammation and inflammatory disorders. Highly preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"). Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below), and immunodeficiencies (e.g., as described below). An additional highly preferred indication is infection (e.g., AIDS, and/or an infectious disease as described below under "Infectious Disease"). Highly preferred indications include neoplastic diseases (e.g., melanoma, leukemia, lymphoma, and/or as described below under "Hyperproliferative

				<p>85:6342-6346 (1988); Black et al., <i>Virus Gnes</i> 15(2):105-117 (1997); and Fraser et al., 29(3):838-844 (1999), the contents of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary human T cells that may be used according to these assays include the SUPT cell line, which is a suspension culture of IL-2 and IL-4 responsive T cells.</p>	<p>Disorders"). Highly preferred indications include neoplasms and cancers, such as, melanoma, renal cell carcinoma, leukemia, lymphoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications also include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, suppression of immune</p>
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					reactions to transplanted organs, asthma and allergy.
HACBD91	530	Activation of transcription through STAT6 response element in immune cells (such as T-cells).	Assays for the activation of transcription through the Signal Transducers and Activators of Transcription (STAT6) response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate STAT6 transcription factors and modulate the expression of multiple genes. Exemplary assays for transcription through the STAT6 response element that may be used or routinely modified to test STAT6 response element activity of the polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al.,	A highly preferred indication is allergy. Another highly preferred indication is asthma. Additional highly preferred indications include inflammation and inflammatory disorders. Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"). Preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, multiple sclerosis and/or as described below) and immunodeficiencies (e.g., as described below). Preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, melanoma, and/or as described below under "Hyperproliferative Disorders"). Preferred	

				<p>Proc Natl Acad Sci USA 85:6342-6346 (1988); Georas et al., Blood 92(12):4529-4538 (1998); Moffatt et al., Transplantation 69(7):1521-1523 (2000); Curiel et al., Eur J Immunol 27(8):1982-1987 (1997); and Masuda et al., J Biol Chem 275(38):29331-29337 (2000), the contents of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary T cells that may be used according to these assays include the SUPT cell line, which is a suspension culture of IL-2 and IL-4 responsive T cells.</p>	<p>indications include neoplasms and cancers, such as, leukemia, lymphoma, melanoma, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, and Lyme Disease. An additional preferred indication is infection (e.g., an</p>
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				infectious disease as described below under "Infectious Disease").
HAGA26	531	Stimulation of insulin secretion from pancreatic beta cells.	<p>Assays for measuring secretion of insulin are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to stimulate insulin secretion. For example, insulin secretion is measured by FMAT using anti-rat insulin antibodies. Insulin secretion from pancreatic beta cells is upregulated by glucose and also by certain proteins/peptides, and dysregulation is a key component in diabetes. Exemplary assays that may be used or routinely modified to test for stimulation of insulin secretion (from pancreatic cells) by polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in: Ahren, B., et al.,</p>	<p>A highly preferred indication is diabetes mellitus. An additional highly preferred indication is a complication associated with diabetes (e.g., diabetic retinopathy, diabetic nephropathy, kidney disease (e.g., renal failure, nephropathy and/or other diseases and disorders as described in the "Renal Disorders" section below), diabetic neuropathy, nerve disease and nerve damage (e.g., due to diabetic neuropathy), blood vessel blockage, heart disease, stroke, impotence (e.g., due to diabetic neuropathy or blood vessel blockage), seizures, mental confusion, drowsiness, nonketotic hyperglycemic hyperosmolar coma, cardiovascular disease (e.g., heart disease, atherosclerosis, microvascular disease, hypertension, stroke, and other diseases and disorders as</p>

			<p>Am J Physiol, 277(4 Pt 2):R959-66 (1999); Li, M., et al., Endocrinology, 138(9):3735-40 (1997); Kim, K.H., et al., FEBS Lett, 377(2):237-9 (1995); and, Miraglia S et. al., Journal of Biomolecular Screening, 4:193-204 (1999), the contents of each of which is herein incorporated by reference in its entirety. Pancreatic cells that may be used according to these assays are publicly available (e.g., through the ATCC) and/or may be routinely generated. Exemplary pancreatic cells that may be used according to these assays include rat INS-1 cells. INS-1 cells are a semi-adherent cell line established from cells isolated from an X-ray induced rat transplantable insulinoma. These cells retain characteristics typical of native pancreatic beta cells including glucose inducible insulin secretion. References: Asfari et al. Endocrinology 1992 130:167.</p>	<p>described in the "Cardiovascular Disorders" section below), dyslipidemia, endocrine disorders (as described in the "Endocrine Disorders" section below), neuropathy, vision impairment (e.g., diabetic retinopathy and blindness), ulcers and impaired wound healing, and infection (e.g., infectious diseases and disorders as described in the "Infectious Diseases" section below, especially of the urinary tract and skin), carpal tunnel syndrome and Dupuytren's contracture). An additional highly preferred indication is obesity and/or complications associated with obesity. Additional highly preferred indications include weight loss or alternatively, weight gain. Additional highly preferred indications are complications associated with insulin resistance.</p>
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HAGBZ81	532	<p>Activation of transcription through serum response element in immune cells (such as T-cells).</p>	<p>Assays for the activation of transcription through the Serum Response Element (SRE) are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate the serum response factors and modulate the expression of genes involved in growth. Exemplary assays for transcription through the SRE that may be used or routinely modified to test SRE activity of the polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); and Black et al., Virus Genes 12(2):105-117 (1997), the content of each of which are</p>	<p>A preferred embodiment of the invention includes a method for inhibiting (e.g., reducing) TNF alpha production. An alternative preferred embodiment of the invention includes a method for stimulating (e.g., increasing) TNF alpha production. Preferred indications include blood disorders (e.g., as described below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"), Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, Crohn's disease, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional highly preferred indications include inflammation and inflammatory disorders, and</p>
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				<p>herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary mouse T cells that may be used according to these assays include the CTLL cell line, which is an IL-2 dependent suspension culture of T cells with cytotoxic activity.</p>	<p>treating joint damage in patients with rheumatoid arthritis. An additional highly preferred indication is sepsis. Highly preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Additionally, highly preferred indications include neoplasms and cancers, such as, for example, leukemia, lymphoma, melanoma, glioma (e.g., malignant glioma), solid tumors, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL),</p>
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					<p>plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, cardiac reperfusion injury, and asthma and allergy. An additional preferred indication is infection (e.g., an infectious disease as described below under "Infectious Disease").</p>
	HAGDG59	533	Inhibition of squalene synthetase gene transcription.	<p>Reporter Assay: construct contains regulatory and coding sequence of squalene synthetase, the first specific enzyme in the cholesterol biosynthetic pathway. See Jiang, et al., J. Biol. Chem. 268:12818-12824(1993), the contents of which are herein incorporated by reference in its entirety. Cells were treated with SID supernatants, and SEAP activity was measured</p>	

				after 72 hours. HepG2 is a human hepatocellular carcinoma cell line (ATCC HB-8065). See Knowles et al., Science. 209:497-9 (1980), the contents of which are herein incorporated by reference in its entirety.	
HAGDS35	534	Regulation of transcription via DMEF1 response element in adipocytes and pre-adipocytes	Assays for the regulation of transcription through the DMEF1 response element are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to activate the DMEF1 response element in a reporter construct (such as that containing the GLUT4 promoter) and to regulate insulin production. The DMEF1 response element is present in the GLUT4 promoter and binds to MEF2 transcription factor and another transcription factor that is required for insulin regulation of Glut4 expression in skeletal muscle. GLUT4 is the primary	A highly preferred indication is diabetes mellitus. Additional highly preferred indications include complications associated with diabetes (e.g., diabetic retinopathy, diabetic nephropathy, kidney disease (e.g., renal failure, nephropathy and/or other diseases and disorders as described in the "Renal Disorders" section below), diabetic neuropathy, nerve disease and nerve damage (e.g., due to diabetic neuropathy), blood vessel blockage, heart disease, stroke, impotence (e.g., due to diabetic neuropathy or blood vessel blockage), seizures, mental confusion, drowsiness, nonketotic hyperglycemic-	

				<p>insulin-responsive glucose transporter in fat and muscle tissue. Exemplary assays that may be used or routinely modified to test for DMEF1 response element activity (in adipocytes and pre-adipocytes) by polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Thai, M. V., et al., J Biol Chem, 273(23):14285-92 (1998); Mora, S., et al., J Biol Chem, 275(21):16323-8 (2000); Liu, M.L., et al., J Biol Chem, 269(45):28514-21 (1994); "Identification of a 30-base pair regulatory element and novel DNA binding protein that regulates the human GLUT4 promoter in transgenic mice", J Biol Chem. 2000 Aug 4;275(31):23666-73; Berger, et al., Gene 66:1-10 (1988); and, Cullen, B., et al., Methods in Enzymol. 216:362-368 (1992), the contents of each of which is herein incorporated by reference in its entirety.</p>	<p>hyperosmolar coma, cardiovascular disease (e.g., heart disease, atherosclerosis, microvascular disease, hypertension, stroke, and other diseases and disorders as described in the "Cardiovascular Disorders" section below), dyslipidemia, endocrine disorders (as described in the "Endocrine Disorders" section below), neuropathy, vision impairment (e.g., diabetic retinopathy and blindness), ulcers and impaired wound healing, and infection (e.g., infectious diseases and disorders as described in the "Infectious Diseases" section below, especially of the urinary tract and skin). An additional highly preferred indication is obesity and/or complications associated with obesity. Additional highly preferred indications include weight loss or alternatively, weight gain. Additional highly preferred indications are complications associated with insulin resistance.</p>
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				<p>Adipocytes and pre-adipocytes that may be used according to these assays are publicly available (e.g., through the ATCC) and/or may be routinely generated. Exemplary cells that may be used according to these assays include the mouse 3T3-L1 cell line which is an adherent mouse preadipocyte cell line. Mouse 3T3-L1 cells are a continuous substrain of 3T3 fibroblasts developed through clonal isolation. These cells undergo a pre-adipocyte to adipose-like conversion under appropriate differentiation culture conditions.</p>	
	HAGFG51	535	<p>Activation of transcription through serum response element in immune cells (such as T-cells).</p>	<p>Assays for the activation of transcription through the Serum Response Element (SRE) are well-known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to regulate the serum response factors and modulate the</p>	<p>A preferred embodiment of the invention includes a method for inhibiting (e.g., reducing) TNF alpha production. An alternative preferred embodiment of the invention includes a method for stimulating (e.g., increasing) TNF alpha production. Preferred indications include blood disorders (e.g., as described</p>

				<p>expression of genes involved in growth. Exemplary assays for transcription through the SRE that may be used or routinely modified to test SRE activity of the polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include assays disclosed in Berger et al., Gene 66:1-10 (1998); Cullen and Malm, Methods in Enzymol 216:362-368 (1992); Henthorn et al., Proc Natl Acad Sci USA 85:6342-6346 (1988); and Black et al., Virus Genes 12(2):105-117 (1997), the content of each of which are herein incorporated by reference in its entirety. T cells that may be used according to these assays are publicly available (e.g., through the ATCC). Exemplary mouse T cells that may be used according to these assays include the CTLL cell line, which is an IL-2 dependent suspension culture of T cells with cytotoxic</p>	<p>below under "Immune Activity", "Blood-Related Disorders", and/or "Cardiovascular Disorders"), Highly preferred indications include autoimmune diseases (e.g., rheumatoid arthritis, systemic lupus erythematosus, Crohn's disease, multiple sclerosis and/or as described below), immunodeficiencies (e.g., as described below), boosting a T cell-mediated immune response, and suppressing a T cell-mediated immune response. Additional highly preferred indications include inflammation and inflammatory disorders, and treating joint damage in patients with rheumatoid arthritis. An additional highly preferred indication is sepsis. Highly preferred indications include neoplastic diseases (e.g., leukemia, lymphoma, and/or as described below under "Hyperproliferative Disorders"). Additionally, highly preferred indications include neoplasms and</p>
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				activity.	<p>cancers, such as, for example, leukemia, lymphoma, melanoma, glioma (e.g., malignant glioma), solid tumors, and prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver and urinary cancer. Other preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Preferred indications include anemia, pancytopenia, leukopenia, thrombocytopenia, Hodgkin's disease, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt's lymphoma, arthritis, AIDS, granulomatous disease, inflammatory bowel disease, neutropenia, neutrophilia, psoriasis, suppression of immune reactions to transplanted organs and tissues, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease,</p>
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					cardiac reperfusion injury, and asthma and allergy. An additional preferred indication is infection (e.g., an infectious disease as described below under "Infectious Disease").
HAIBO71	536	Endothelial Cell Apoptosis	Caspase Apoptosis. Assays for caspase apoptosis are well known in the art and may be used or routinely modified to assess the ability of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) to promote caspase protease-mediated apoptosis. Induction of apoptosis in endothelial cells supporting the vasculature of tumors is associated with tumor regression due to loss of tumor blood supply. Exemplary assays for caspase apoptosis that may be used or routinely modified to test caspase apoptosis activity of polypeptides of the invention (including antibodies and agonists or antagonists of the invention) include the assays disclosed in Lee et al., FEBS	A highly preferred embodiment of the invention includes a method for stimulating endothelial cell growth. An alternative highly preferred embodiment of the invention includes a method for inhibiting endothelial cell growth. A highly preferred embodiment of the invention includes a method for stimulating endothelial cell proliferation. An alternative highly preferred embodiment of the invention includes a method for inhibiting endothelial cell proliferation. A highly preferred embodiment of the invention includes a method for stimulating apoptosis of endothelial cells. An alternative highly preferred embodiment of the invention includes a method for	

				<p>inhibiting (e.g., decreasing) apoptosis of endothelial cells. A highly preferred embodiment of the invention includes a method for stimulating angiogenesis. An alternative highly preferred embodiment of the invention includes a method for inhibiting angiogenesis. A highly preferred embodiment of the invention includes a method for reducing cardiac hypertrophy. An alternative highly preferred embodiment of the invention includes a method for inducing cardiac hypertrophy. Highly preferred indications include neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders"), and disorders of the cardiovascular system (e.g., heart disease, congestive heart failure, hypertension, aortic stenosis, cardiomyopathy, valvular regurgitation, left ventricular dysfunction, atherosclerosis and atherosclerotic vascular</p>
			<p>Lett 485(2-3): 122-126 (2000); Nor et al., J Vasc Res 37(3): 209-218 (2000); and Karsan and Harlan, J Atheroscler Thromb 3(2): 75-80 (1996); the contents of each of which are herein incorporated by reference in its entirety. Endothelial cells that may be used according to these assays are publicly available (e.g., through commercial sources). Exemplary endothelial cells that may be used according to these assays include bovine aortic endothelial cells (bAEC), which are an example of endothelial cells which line blood vessels and are involved in functions that include, but are not limited to, angiogenesis, vascular permeability, vascular tone, and immune cell extravasation.</p>	

					<p>disease, diabetic nephropathy, intracardiac shunt, cardiac hypertrophy, myocardial infarction, chronic hemodynamic overload, and/or as described below under “Cardiovascular Disorders”).</p> <p>Highly preferred indications include cardiovascular, endothelial and/or angiogenic disorders (e.g., systemic disorders that affect vessels such as diabetes mellitus, as well as diseases of the vessels themselves, such as of the arteries, capillaries, veins and/or lymphatics). Highly preferred are indications that stimulate angiogenesis and/or cardiovascularization. Highly preferred are indications that inhibit angiogenesis and/or cardiovascularization.</p> <p>Highly preferred indications include antiangiogenic activity to treat solid tumors, leukemias, and Kaposi's sarcoma, and retinal disorders.</p> <p>Highly preferred indications include neoplasms and cancer, such as, Kaposi's sarcoma,</p>
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					<p>hemangioma (capillary and cavernous), glomus tumors, telangiectasia, bacillary angiomatosis, hemangioendothelioma, angiosarcoma, haemangiopericytoma, lymphangioma, lymphangiosarcoma. Highly preferred indications also include cancers such as, prostate, breast, lung, colon, pancreatic, esophageal, stomach, brain, liver, and urinary cancer. Preferred indications include benign dysproliferative disorders and pre-neoplastic conditions, such as, for example, hyperplasia, metaplasia, and/or dysplasia. Highly preferred indications also include arterial disease, such as, atherosclerosis, hypertension, coronary artery disease, inflammatory vasculitides, Reynaud's disease and Reynaud's phenomenon, aneurysms, restenosis; venous and lymphatic disorders such as thrombophlebitis,</p>
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					<p>lymphangitis, and lymphedema; and other vascular disorders such as peripheral vascular disease, and cancer. Highly preferred indications also include trauma such as wounds, burns, and injured tissue (e.g., vascular injury such as, injury resulting from balloon angioplasty, and atherosclerotic lesions), implant fixation, scarring, ischemia reperfusion injury, rheumatoid arthritis, cerebrovascular disease, renal diseases such as acute renal failure, and osteoporosis. Additional highly preferred indications include stroke, graft rejection, diabetic or other retinopathies, thrombotic and coagulative disorders, vasculitis, lymph angiogenesis, sexual disorders, age-related macular degeneration, and treatment /prevention of endometriosis and related conditions. Additional highly preferred indications include fibromas,</p>
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